

## ROCS Consolidated Report

## Applicable Analysis And Number Theory Research Unit

Category: Journal Article

Submission Type: DOE SUBMISSABLE

Publication No.	Publication	Dept Contr	Univ Contr
WITS-2022-0000271	Bravo J, Herrere J L, <u>Luca Florian</u> (2021). Common values of generalized Fibonacci and Pell sequences <i>JOURNAL OF NUMBER THEORY</i> , 2021, 226 pp. 51 - 71. 10.1016/j.jnt.2021.03.001	0,33	0,33
WITS-2022-0000410	<u>Archibald Margaret</u> , <u>Knopfmacher Arnold</u> (2021). The water capacity of geometrically distributed words <i>Aequationes Mathematicae</i> , 2021, 95 (4) pp. 777 - 796. 10.1007/s00010-021-00785-y	1,00	1,00
WITS-2022-0000604	Gomez J, <u>Luca Florian</u> (2021). Product of repdigits with consecutive lengths in the Fibonacci sequence. <i>Boletin de la Sociedad Matematica Mexicana</i> , 2021, 27 (31) pp. 1 - 9. 10.1007/s40590-021-00325-3	0,50	0,50
WITS-2022-0000611	Hajdu L, <u>Luca Florian</u> , Tjrdeman R (2021). Skolem's conjecture confirmed for a family of exponential equations, III <i>JOURNAL OF NUMBER THEORY</i> , 2021, 224 pp. 41 - 49. 10.1016/j.jnt.2021.01.013	0,33	0,33
WITS-2022-0000613	Laishram Shanta, <u>Luca Florian</u> , <u>Sias Mark</u> (2021). On members of Lucas sequences which are products of Catalan numbers <i>International Journal of Number Theory</i> , 2021, 17 (6) pp. 1487 - 1515. 10.1142/S1793042121500457	0,33	0,50
WITS-2022-0000623	Castano-Bernard Carlos, <u>Luca Florian</u> (2021). On Petersson's partition limit formula <i>International Journal of Number Theory</i> , 2021, 17 (6) pp. 1365 - 1378. 10.1142/S1793042121500408	0,50	0,50
WITS-2022-0000631	<u>Mphako-Banda Eunice</u> , Kok J, Naduvath S (2021). Rainbow degree-jump coloring of graphs <i>Carpathian Mathematical Publications</i> , 2021, 13 (1) pp. 229 - 239. 10.15330/cmp.13.1.229-239	0,33	0,33
WITS-2022-0000675	<u>Luca Florian</u> , Pappalardi F (2021). On the number of divisors of the least common multiples of shifted prime powers <i>Functiones et Approximatio, Commentarii Mathematici</i> , 2021, 64 (2) pp. 153 - 161. 10.7169/FACM/1866	0,50	0,50
WITS-2022-0000748	<u>Bartels Casey</u> , <u>Currie Sonja</u> , <u>Watson Bruce</u> (2021). Sturm-Liouville Problems with Transfer Condition Herglotz Dependent on the Eigenparameter: Eigenvalue Asymptotics <i>Complex Analysis and Operator Theory</i> , 2021, 15 (71) pp. 1 - 29. 10.1007/S11785-021-01119-1	0,67	1,00
WITS-2022-0000782	Altassan A, <u>Luca Florian</u>	0,50	0,50

## ROCS Consolidated Report

	(2021). Markov Type Equations with Solutions in Lucas Sequences <i>Mediterranean Journal of Mathematics</i> , 2021, 18 (87) pp. 1 - 12. 10.1007/S00009-021-01711-X		
WITS-2022-0000820	<b><u>Zelenyuk Yevhen</u></b>	1,00	1,00
	(2021). Finite semigroups in $\beta N$ and Ramsey theory <i>BULLETIN OF THE LONDON MATHEMATICAL SOCIETY</i> , 2021, 53 (3) pp. 710 - 722. 10.1112/blms.12453		
WITS-2022-0000997	Gomez C, Gomez J, <b><u>Luca Florian</u></b>	0,33	0,33
	(2021). k- Fibonacci powers as sums of powers of some fixed primes <i>MONATSHEFTE FUR MATHEMATIK</i> , 2021, 195 (1) pp. 73 - 105. 10.1007/s00605-021-01536-6		
WITS-2022-0001012	Gomez C, Gomez J, <b><u>Luca Florian</u></b>	0,33	0,33
	(2021). Two b-repunits in the Fibonacci sequence <i>JOURNAL OF NUMBER THEORY</i> , 2021, 222 pp. 393 - 422. 10.1016/j.jnt.2020.10.006		
WITS-2022-0001220	<b><u>Zelenyuk Yuliya</u></b>	1,00	1,00
	(2021). Computing the number of symmetric colorings of elementary Abelian groups <i>Alexandria Engineering Journal</i> , 2021, 60 (2) pp. 2075 - 2081. 10.1016/j.aej.2020.10.065		
WITS-2022-0001481	Kebli Salima, Kihel Omar, Larone Jesse, <b><u>Luca Florian</u></b>	0,25	0,25
	(2021). On the nonnegative integer solutions to the equation $F_n \pm F_m = y^a$ <i>JOURNAL OF NUMBER THEORY</i> , 2021, 220 pp. 107 - 127. 10.1016/j.jnt.2020.08.004		
WITS-2022-0001573	<b><u>Luca Florian</u></b> , Pongsriiam P, Szalay L	0,33	0,33
	(2021). On the divisibility $F_k \mid F_2 x + F_x + 1$ <i>SCIENCEASIA</i> , 2021, 47 (1) pp. 106 - 110. 10.2306/scienceasia1513-1874.2021.005		
WITS-2022-0001871	Banderier C, Ruiz Carlos, <b><u>Luca Florian</u></b> , Pappalardi F, Trevino E	0,20	0,20
	(2021). On Egyptian Fractions of Length 3 <i>Revista de la Union Matematica Argentina</i> , 2021, 62 (1) pp. 257 - 274. 10.33044/REVUMA.1798		
WITS-2022-0001916	<b><u>Ncambalala Thokozani</u></b> , <b><u>Mphako-Banda Eunice</u></b>	0,50	1,00
	(2021). Hosoya Polynomial of a Multi-Bridge Graph <i>Turkish World Mathematical Society Journal of Applied and Engineering Mathematics</i> , 2021, 11 (3) pp. 724 - 729.		
WITS-2022-0002022	Erazo H, Gomez C, <b><u>Luca Florian</u></b>	0,33	0,33
	(2021). On Pillai's problem with X-coordinates of Pell equations and powers of 2 II <i>International Journal of Number Theory</i> , 2021, 17 (10) pp. 2251 - 2277. 10.1142/S1793042121500871		
WITS-2022-0002184	Alanazi A, Farid F, Javaid M, <b><u>Munagi Augustine</u></b>	0,25	0,25
	(2021). Computing Exact Values for Gutman Indices of Sum Graphs under Cartesian Product		

## ROCS Consolidated Report

	<i>MATHEMATICAL PROBLEMS IN ENGINEERING</i> , 2021, 2021 (5569997) pp. 1 - 20. 10.1155/2021/5569997		
WITS-2022-0002208	Chimkono Thokozani, <b><u>Mphako-Banda Eunice</u></b> , Taylor Amelia, Kishindo Pascal (2021). A Usability Study of the Central-Bantu Multilingual Keyboards <i>INTERNATIONAL JOURNAL OF HUMAN-COMPUTER INTERACTION</i> , 2021, 37 (16) pp. 1489 - 1503. 10.1080/10447318.2021.1895530	0,25	0,25
WITS-2022-0002411	Adegbindin C, <b><u>Luca Florian</u></b> , Togbe A (2021). Pell and pell-lucas numbers as sums of three repdigits <i>Acta Mathematica Universitatis Comeniana</i> , 2021, 90 (1) pp. 7 - 25.	0,33	0,33
WITS-2022-0002436	Alkan Altug, Booker Andrew R, <b><u>Luca Florian</u></b> (2021). On a recursively defined sequence involving the prime counting function <i>Journal of Integer Sequences</i> , 2021, 24 (3) pp. 1 - 18.	0,33	0,33
WITS-2022-0002546	<b><u>Archibald Margaret</u></b> , <b><u>Blecher Aubrey</u></b> , <b><u>Brennan Charlotte</u></b> , <b><u>Knopfmacher Arnold</u></b> , Mansour T (2021). Impulse Propagation in Compositions and Words <i>International Journal of Mathematics and Mathematical Sciences</i> , 2021, 2021 (8811261) pp. 1 - 6. 10.1155/2021/8811261	0,80	0,80
WITS-2022-0002601	<b><u>Zelenyuk Yevhen</u></b> (2021). Elements of order 2 in $\beta\mathbb{N}$ <i>FUNDAMENTA MATHEMATICAE</i> , 2021, 252 (3) pp. 355 - 359. 10.4064/fm902-5-2020	1,00	1,00
WITS-2022-0002703	Bravo J, Herrera J, <b><u>Luca Florian</u></b> (2021). On a generalization of the Pell sequence <i>Mathematica Bohemica</i> , 2021, 146 (2) pp. 199 - 213. 10.21136/MB.2020.0098-19	0,33	0,33
WITS-2022-0002801	Alahmadi A, Altassan A, <b><u>Luca Florian</u></b> , Shoaib H (2021). Fibonacci numbers which are concatenations of two repdigits <i>Quaestiones Mathematicae</i> , 2021, 44 (2) pp. 281 - 290. 10.2989/16073606.2019.1686439	0,25	0,25
WITS-2022-0003146	<b><u>Archibald Margaret</u></b> , <b><u>Blecher Aubrey</u></b> , <b><u>Knopfmacher Arnold</u></b> (2021). Alphabetic points in compositions and words <i>Discrete Mathematics and Applications</i> , 2021, 31 (4) pp. 241 - 250. 10.1515/dma-2021-0021	1,00	1,00
WITS-2022-0004258	<b><u>Homann Jonathan</u></b> , <b><u>Kuo Wen-Chi</u></b> , <b><u>Watson Bruce</u></b> (2021). A Koopman-von Neumann type theorem on the convergence of Cesàro means in Riesz spaces <i>Proceedings of the American Mathematical Society, Series B</i> , 2021, 8 pp. 75 - 85. 10.1090/bproc/75	0,33	1,00
WITS-2022-0004867	<b><u>Luca Florian</u></b> , Petho A, Szalay L	0,33	0,33

## ROCS Consolidated Report

	(2021). Duplications in the k-generalized Fibonacci sequences <i>New York Journal of Mathematics</i> , 2021, 27 (N/A) pp. 1115 - 1133.		
WITS-2022-0004871	Gomez C, <b><u>Luca Florian</u></b>  (2021). On the distribution of the roots of polynomial $z^k - z^{k-1} - \dots - z - 1$ <i>Commentationes Mathematicae Universitatis Carolinae</i> , 2021, 62 (3) pp. 291 - 296. 10.14712/1213-7243.2021.025	0,50	0,50
WITS-2022-0006019	<b><u>Blecher Aubrey</u></b> , <b><u>Brennan Charlotte</u></b> , <b><u>Knopfmacher Arnold</u></b> , Mansour T, Shattuck Mark (2020). Pushes in permutations <i>Journal of Combinatorial Mathematics and Combinatorial Computing</i> , 2021, 115 (N/A) pp. 77 - 96.	0,60	0,60
WITS-2022-0006026	Bilu Y, <b><u>Luca Florian</u></b>  (2021). Binary polynomial power sums vanishing at roots of unity <i>ACTA ARITHMETICA</i> , 2021, 198 (2) pp. 195 - 217. 10.4064/aa200511-12-9	0,50	0,50
WITS-2022-0006047	<b><u>Luca Florian</u></b>  (2021). On the discriminant of the k-generalized Fibonacci polynomial <i>Fibonacci Quarterly</i> , 2021, 59 (4) pp. 298 - 307.	1,00	1,00
WITS-2022-0006049	Alahmadi A, Altassan A, <b><u>Luca Florian</u></b> , Shoaib H  (2021). k-Generalized Fibonacci numbers which are concatenations of two repdigits <i>Glasnik Matematički</i> , 2021, 56 (76) pp. 29 - 46.	0,25	0,25
WITS-2022-0006058	Gonzalez Marcos J, Mendoza A, <b><u>Luca Florian</u></b> , Huguet V Janitzio Mejia  (2021). On composite odd numbers k for which $2nk$ is a noncototient for all positive integers n <i>Journal of Integer Sequences</i> , 2021, 24 (N/A) pp. 1 - 6.	0,25	0,25
WITS-2022-0006670	Alkabouss S A, Benseba B, Berbara N, Earp-Lynch S, <b><u>Luca Florian</u></b>  (2021). A note on the diophantine equation $x^2 - kxy + ky^2 + ly = 0$ <i>Mathematica</i> , 2021, 63 (2) pp. 151 - 157. 10.24193/mathcluj.2021.2.01	0,20	0,20
WITS-2022-0006752	<b><u>Luca Florian</u></b> , <b><u>Manganye Sylvester</u></b>  (2021). On the gaps between q- binomial coefficients <i>Communications in Mathematics</i> , 2021, 29 pp. 431 - 442. 10.2478/cm-2020-0010	0,50	1,00
WITS-2022-0006901	<b><u>Blecher Aubrey</u></b> , <b><u>Brennan Charlotte</u></b> , <b><u>Knopfmacher Arnold</u></b>  (2021). The inner site-perimeter of bargraphs <i>Online Journal of Analytic Combinatorics</i> , 2021, 16 (N/A) pp. 1 - 12.	1,00	1,00
WITS-2022-0006980	DDamulira M, <b><u>Luca Florian</u></b>	0,50	0,50

## ROCS Consolidated Report

(2021).

On the exponential Diophantine equation related to powers of two consecutive terms of Lucas sequences

*RAMANUJAN JOURNAL*, 2021, 56 pp. 651 - 684.

10.1007/s11139-020-00278-7

### Category: Chapter In Book

#### Submission Type: DOE SUBMISSABLE

Publication No.	Publication	Dept Contr	Univ Contr
WITS-2022-0005817	<b>Homann Jonathan, Kuo Wen-Chi, <u>Watson Bruce</u></b>	0,21	0,63
	(2021). Ergodicity in Riesz spaces Chapter 9 In E. Kikianty & M. Mabula & M. Messerschmidt & JH. van der Walt & M. Worte (eds.), Positivity and its Applications (pp. 193-201). CHAM : Springer Nature. 978-3-030-70973-0		

#### Submission Type: NOT ACCREDITED

Publication No.	Publication	Dept Contr	Univ Contr
WITS-2022-0000006	<b><u>Luca Florian</u>, Nair M, Mohan D, Zwane Q, Dumay J</b>	0,09	0,10
	(2021). PROD Test 23/08/21 Chapter 9 In J. Smit (eds.), PROD TEST 23/08/21 (pp. 26-36). cape town : Academic Press, Elsevier. 978-897-2589-32-0		

### Category: Conference Proceeding

#### Submission Type: DOE SUBMISSABLE

Publication No.	Publication	Dept Contr	Univ Contr
WITS-2022-0006907	Baier C, Jantsch S, Lefaucheux E, Ouaknine J, Whiteland M, Funke F, Karimov T, <b><u>Luca Florian</u></b> , Purser D, Worrell J The Orbit Problem for Parametric Linear Dynamical Systems VIRTUAL CONFERENCE, France 32nd International Conference on Concurrency Theory 08-24-2021 - 08-27-2021 : pp 1 - 17	0,05	0,05
WITS-2022-0006921	<b><u>Luca Florian</u></b> , Ouaknine J, Worrell J Universal Skolem Sets ROME, Italy 2021 36th Annual ACM/IEEE Symposium on Logic in Computer Science (LICS 2021) 06-29-2021 - 07-02-2021 : pp 1 - 6	0,17	0,17
WITS-2022-0006981	<b><u>Luca Florian</u></b> X-coordinates of Pell Equations in Various Sequences BRASOV, Romania Transcendence in Algebra, Combinatorics, Geometry and Number Theory 05-13-2019 - 05-17-2019 : pp 451 - 463	0,50	0,50

#### Submission Type: NOT ACCREDITED/PENDING VERIFICATION

Publication No.	Publication	Dept Contr	Univ Contr
WITS-2022-0006916	Kenison G, Lefaucheux E, Moree P, Whiteland M, Klurman O, <b><u>Luca Florian</u></b> , Ouaknine J, Worrell J	0,07	0,06

## **ROCS Consolidated Report**

On Positivity and Minimality for Second-Order Holonomic Sequences

Tallinn, Estonia

46th International Symposium on Mathematical Foundations of Computer Science

08-23-2021 - 08-27-2021 : pp 1 - 15

## ROCS Consolidated Report

## School of Mathematics

## Category: Journal Article

## Submission Type: DOE SUBMISSABLE

Publication No.	Publication	Dept Contr	Univ Contr
WITS-2022-0000248	Dankelmann P, <b><u>Jonck Elizabeth</u></b> , Mafunda s (2021). Proximity and remoteness in triangle-free and C4-free graphs in terms of order and minimum degree <i>DISCRETE MATHEMATICS</i> , 2021, 344 (112513) pp. 1 - 15. 10.1016/J.DISC.2021.112513	0,33	0,33
WITS-2022-0000397	Yildirim Y, Biswas A, <b><u>Kara Abdul</u></b> , Guggilla P, Khan S, Alzahrani A, Belic M (2021). Optical soliton perturbation and conservation law with Kudryashov's refractive index having quadrupled power-law and dual form of generalized nonlocal nonlinearity <i>OPTIK</i> , 2021, 240 (166966) pp. 1 - 8. 10.1016/J.IJLEO.2021.166966	0,14	0,14
WITS-2022-0000400	Yildirim Y, Biswas A, <b><u>Kara Abdul</u></b> , Guggilla P, Khan S, Alzahrani A, Belic M (2021). Highly dispersive optical solitons and conservation laws with Kudryashov's sextic power-law of nonlinear refractive index <i>OPTIK</i> , 2021, 240 (166915) pp. 1 - 11. 10.1016/J.IJLEO.2021.166915	0,14	0,14
WITS-2022-0000429	Saqib Muhammad, Hussain Q, <b><u>Kara Abdul</u></b> , Zaman F (2021). On Lie symmetry analysis of nonhomogeneous generalized inviscid and fractional Burgers' equation <i>MATHEMATICAL METHODS IN THE APPLIED SCIENCES</i> , 2021, 44 (11) pp. 8726 - 8738. 10.1002/mma.7300	0,25	0,25
WITS-2022-0000478	Biswas A, <b><u>Kara Abdul</u></b> , Ekici M, Zayed E, Alzahrani A, Belic M (2021). Conservation Laws for Solitons in Magneto-optic Waveguides with Anti-cubic and Generalized Anti-cubic Nonlinearities <i>REGULAR &amp; CHAOTIC DYNAMICS</i> , 2021, 26 (4) pp. 456 - 461. 10.1134/S1560354721040080	0,17	0,17
WITS-2022-0000566	Aljohani A, Hussain Q, Zaman F, <b><u>Kara Abdul</u></b> (2021). On a study of some classes of the fourth-order KdV-Klein/Gordon equation and its time fractional forms <i>CHAOS SOLITONS &amp; FRACTALS</i> , 2021, 148 (111028) pp. 1 - 5. 10.1016/J.CHAOS.2021.111028	0,25	0,25
WITS-2022-0000613	Laishram Shanta, <b><u>Luca Florian</u></b> , <b><u>Sias Mark</u></b> (2021). On members of Lucas sequences which are products of Catalan numbers <i>International Journal of Number Theory</i> , 2021, 17 (6) pp. 1487 - 1515. 10.1142/S1793042121500457	0,17	0,50
WITS-2022-0000627	<b><u>Mathebula Agreement</u></b> , <b><u>Jamal Sameerah</u></b> (2021). Contingent relations for Klein -Gordon equations <i>INDIAN JOURNAL OF PHYSICS</i> , 2021, 95 (7) pp. 1437 - 1444. 10.1007/s12648-020-01810-7	1,00	1,00
WITS-2022-0000748	<b><u>Bartels Casey</u></b> , <b><u>Currie Sonja</u></b> , <b><u>Watson Bruce</u></b>	0,33	1,00

## ROCS Consolidated Report

	(2021). Sturm-Liouville Problems with Transfer Condition Herglotz Dependent on the Eigenparameter: Eigenvalue Asymptotics <i>Complex Analysis and Operator Theory</i> , 2021, 15 (71) pp. 1 - 29. 10.1007/S11785-021-01119-1		
WITS-2022-0000770	<b><u>Obaidullah Usaamah, Jamal Sameerah</u></b>	1,00	1,00
	(2021). On the Formulaic Solution of a (n+ 1) th Order Differential Equation <i>International Journal of Applied and Computational Mathematics</i> , 2021, 7 (58) pp. 1 - 15. 10.1007/s40819-021-01010-9		
WITS-2022-0000784	<b><u>Obaidullah Usaamah, Jamal Sameerah</u></b>	1,00	1,00
	(2021). pp-wave potential functions: A complete study using Noether symmetries <i>INTERNATIONAL JOURNAL OF GEOMETRIC METHODS IN MODERN PHYSICS</i> , 2021, 18 (7) pp. 1 - 15. 10.1142/S0219887821501085		
WITS-2022-0000839	<b><u>Conradie Willem</u></b> , Frittella S, Manoorkar K, Nazari S, Palmigiano A, Tzimoulis A, Wijnberg N	0,14	0,14
	(2021). Rough concepts <i>INFORMATION SCIENCES</i> , 2021, 561 pp. 371 - 413. 10.1016/j.ins.2020.05.074		
WITS-2022-0001033	Al-Ali U S, Bokhari A, Hussain T, Karim M, <b><u>Kara Abdul</u></b> , Zaman F	0,17	0,17
	(2021). The relativistic heat equation on flat Friedman spacetime <i>INDIAN JOURNAL OF PHYSICS</i> , 2021, 95 (5) pp. 1009 - 1014. 10.1007/s12648-020-01741-3		
WITS-2022-0001424	Aljohani A, Alqurashi Bader Mutair, <b><u>Kara Abdul</u></b>	0,33	0,33
	(2021). Solitons, travelling waves, invariance, conservation laws and 'approximate' conservation of the extended Jimbo-Miwa equation <i>CHAOS SOLITONS &amp; FRACTALS</i> , 2021, 144 (110636) pp. 1 - 6. 10.1016/J.CHAOS.2020.110636		
WITS-2022-0001636	Zayed E, Alngar M, Biswas A, <b><u>Kara Abdul</u></b> , Asma M, Ekici M, Khan S, Alzahrani A, Belic M	0,11	0,11
	(2021). Solitons and conservation laws in magnet-optic waveguides with generalized Kudryashov's equation <i>CHINESE JOURNAL OF PHYSICS</i> , 2021, 69 pp. 186 - 205. 10.1016/j.cjph.2020.11.026		
WITS-2022-0001648	Zayed E, Alngar M, Biswas A, <b><u>Kara Abdul</u></b> , Ekici M, Alzahrani A, Belic M	0,14	0,14
	(2021). Cubic-quartic optical solitons and conservation laws with Kudryashov's sextic power-law of refractive index <i>OPTIK</i> , 2021, 227 (166059) pp. 1 - 7. 10.1016/J.IJLEO.2020.166059		
WITS-2022-0001691	<b><u>Obaidullah Usaamah, Jamal Sameerah</u></b>	1,00	1,00
	(2021). A computational procedure for exact solutions of Burger's hierarchy of nonlinear partial differential equations <i>Journal of Applied Mathematics and Computing</i> , 2021, 65 (1-2) pp. 541 - 551. 10.1007/s12190-020-01403-x		
WITS-2022-0001771	<b><u>Ssekajja Samuel</u></b>	1,00	1,00
	(2021). Lightlike hypersurfaces in spaces with concircular fields		



## ROCS Consolidated Report

	<i>Arabian Journal of Mathematics</i> , 2021, 10 pp. 699 - 710. 10.1007/s40065-021-00334-0		
WITS-2022-0001979	<b><u>Mugwangwavari Beullah, Nyirenda Darlison</u></b> (2021). A note on the Andrews-Ericksson-Petrov-Romick Bijection for Macmahon's partition theorem <i>Journal of Integer Sequences</i> , 2021, 24 (5) pp. 1 - 6.	1,00	1,00
WITS-2022-0002060	Kellerman Ruan, <b><u>Goranko Valentin</u></b> (2021). Approximating trees as coloured linear orders and complete axiomatisations of some classes of trees <i>JOURNAL OF SYMBOLIC LOGIC</i> , 2021, 86 (3) pp. 1035 - 1065. 10.1017/jsl.2021.40	0,50	0,50
WITS-2022-0002251	<b><u>Sabao Hope</u></b> , Olela Otafudu Olivier (2021). On soft quasi-pseudometric spaces <i>Applied General Topology</i> , 2021, 22 (1) pp. 17 - 30. 10.4995/agt.2021.13084	0,50	0,50
WITS-2022-0002409	Yildirim Y, Biswas A, <b><u>Kara Abdul</u></b> , Ekici M, Zayed E, Alzahrani A, Belic M (2021). Optical solitons and conservation law with Kudryashov's form of arbitrary refractive index <i>Journal of Optics (India)</i> , 2021, 50 (4) pp. 542 - 547. 10.1007/s12596-021-00688-w	0,14	0,14
WITS-2022-0002412	<b><u>Ssekajja Samuel</u></b> (2021). On the squares of umbilicity factors of null hypersurfaces in indefinite Kaehler manifolds <i>Acta Mathematica Universitatis Comenianae</i> , 2021, 90 (1) pp. 99 - 110.	1,00	1,00
WITS-2022-0002492	<b><u>Mnguni Nkosingiphile, Jamal Sameerah</u></b> (2021). Invariant solutions of fractional-order spatio-temporal partial differential equations <i>INTERNATIONAL JOURNAL OF NONLINEAR SCIENCES AND NUMERICAL SIMULATION</i> , 2021, 22 (7-8) pp. 1011 - 1022. 10.1515/IJNSNS-2019-0239	1,00	1,00
WITS-2022-0002787	<b><u>Folly-Gbetoula Mensah, Nyirenda Darlison</u></b> (2021). A group theory approach towards some higher order difference equations, solutions, periodicity and asymptotic behavior <i>Quaestiones Mathematicae</i> , 2021, 44 (4) pp. 543 - 555. 10.2989/16073606.2020.1728417	1,00	1,00
WITS-2022-0002811	<b><u>Grobbelaar Marie</u></b> (2021). On a model for the magnetoelastic vibrations of a perfectly conducting Mindlin-Timoshenko plate <i>APPLICABLE ANALYSIS</i> , 2021, 100 (2) pp. 322 - 334. 10.1080/00036811.2019.1602726	1,00	1,00
WITS-2022-0003345	Arendt Wolfgang, Chalendar Isabelle, <b><u>Moletsane Boitumelo</u></b> (2021). PERTURBATION BY WEAKLY CONTINUOUS FORMS AND SEMIGROUPS ON HARDY SPACE <i>JOURNAL OF OPERATOR THEORY</i> , 2021, 86 (2) pp. 331 - 354. 10.7900/jot.2020apr30.2294	0,33	0,33

## ROCS Consolidated Report

WITS-2022-0004255	<p><b><u>Kara Abdul</u></b></p> <p>(2021). On the invariance and conservation laws of differential equations <i>Transactions of the Royal Society of South Africa</i>, 2021, 76 (1) pp. 89 - 95. 10.1080/0035919X.2020.1850541</p>	1,00	1,00
WITS-2022-0004256	<p>Yildirim Y, Biswas A, <b><u>Kara Abdul</u></b>, Ekici M, Alzahrani A, Belic M</p> <p>(2021). Cubic-quartic optical soliton perturbation and conservation laws with generalized Kudryashov's form of refractive index <i>Journal of Optics</i>, 2021, 50 (3) pp. 354 - 360. 10.1007/s12596-021-00681-3</p>	0,17	0,17
WITS-2022-0004258	<p><b><u>Homann Jonathan</u></b>, <b><u>Kuo Wen-Chi</u></b>, <b><u>Watson Bruce</u></b></p> <p>(2021). A Koopman-von Neumann type theorem on the convergence of Cesàro means in Riesz spaces <i>Proceedings of the American Mathematical Society, Series B</i>, 2021, 8 pp. 75 - 85. 10.1090/bproc/75</p>	0,67	1,00
WITS-2022-0004261	<p><b><u>Nyirenda Darlison</u></b>, <b><u>Folly-Gbetoula Mensah</u></b></p> <p>(2021). On symmetries and solutions of certain sixth order difference equations <i>Journal of Computational Analysis and Applications</i>, 2021, 29 (3) pp. 592 - 603.</p>	1,00	1,00
WITS-2022-0004325	<p>Jolaoso Lateef Olakunle, <b><u>Okeke Chibueze</u></b>, Shehu Yekini</p> <p>(2021). Extragradient Algorithm for Solving Pseudomonotone Equilibrium Problem with Bregman Distance in Reflexive Banach Spaces <i>NETWORKS &amp; SPATIAL ECONOMICS</i>, 2021, 21 (N/A) pp. 873 - 903. 10.1007/S11067-021-09554-5</p>	0,33	0,33
WITS-2022-0004618	<p>Alanazi A, <b><u>Nyirenda Darlison</u></b></p> <p>(2021). On Andrews' partitions with parts separated by parity <i>Mathematics</i>, 2021, 9 (2693) pp. 1 - 9. 10.3390/MATH9212693</p>	0,50	0,50
WITS-2022-0004712	<p><b><u>Sabao Hope</u></b>, Olera Otafudu O</p> <p>(2021). Isbell convexity in fuzzy quasi-metric spaces <i>Khayyam Journal of Mathematics</i>, 2021, 7 (2) pp. 266 - 278. 10.22034/kjm.2021.227905.1801</p>	0,50	0,50
WITS-2022-0004930	<p><b><u>Ssekajja Samuel</u></b></p> <p>(2021). On the Geometry of Null Real Hypersurfaces of an Indefinite Complex Contact Manifold <i>Bulletin of the Iranian Mathematical Society</i>, 2021, 47 pp. 1871 - 1891. 10.1007/s41980-020-00477-4</p>	1,00	1,00
WITS-2022-0005124	<p>Biswas A, <b><u>Kara Abdul</u></b>, Sun Yunzhou, Zhou Qin, Yildirim Y, Alshehri Hashim M, Belic M</p> <p>(2021). Conservation laws for pure-cubic optical solitons with complex Ginzburg-Landau equation having several refractive index structures <i>Results in Physics</i>, 2021, 31 (104901) pp. 1 - 7. 10.1016/J.RINP.2021.104901</p>	0,14	0,14
WITS-2022-0005720	<p><b><u>Zinsou Bertin</u></b></p>	1,00	1,00

## ROCS Consolidated Report

	(2020). Dependence of Eigenvalues of fourth-order boundary value problems with transmission conditions <i>ROCKY MOUNTAIN JOURNAL OF MATHEMATICS</i> , 2021, 50 (1) pp. 369 - 382. 10.1216/rmj-2020-50-1-369		
WITS-2022-0005846	<b><u>Ahmed Mogahid, Kara Abdul</u></b>	1,00	1,00
	(2021). Painlevé properties, gauge invariance and solitons of some classes of reaction-diffusion equations <i>CHAOS SOLITONS &amp; FRACTALS</i> , 2021, 153 (111589) pp. 1 - 4. 10.1016/J.CHAOS.2021.111589		
WITS-2022-0005849	<b><u>Folly-Gbetoula Mensah, Nyirenda Darlison</u></b>	1,00	1,00
	(2021). On some third-order difference equations <i>Dynamics of Continuous, Discrete and Impulsive Systems Series A: Mathematical Analysis</i> , 2021, 28 (N/A) pp. 429 - 439.		
WITS-2022-0006238	<b><u>Jamal Sameerah, Mnguni Nkosingiphile</u></b>	1,00	1,00
	(2021). Moving front solutions of a time-fractional power-law fluid under gravity <i>Quaestiones Mathematicae</i> , 2021, 44 (10) pp. 1295 - 1304. 10.2989/16073606.2020.1790438		
WITS-2022-0006564	<b><u>Mukwembi Simon</u></b> , Nyabadza Farai	0,50	0,50
	(2021). A new model for predicting boiling points of alkanes <i>Scientific Reports</i> , 2021, 11 (1) pp. 1 - 11. 10.1038/s41598-021-03541-z		
WITS-2022-0006749	Biswas A, Sonmezoglu A, Ekici M, <b><u>Kara Abdul</u></b> , Alzahrani A, Belic M	0,17	0,17
	(2021). Cubic-Quartic Optical Solitons and Conservation Laws with Kudryashov's Law of Refractive Index by Extended Trial Function <i>COMPUTATIONAL MATHEMATICS AND MATHEMATICAL PHYSICS</i> , 2021, 61 (12) pp. 1995 - 2003. 10.1134/s0965542521310018		
WITS-2022-0006752	<b><u>Luca Florian, Manganye Sylvester</u></b>	0,50	1,00
	(2021). On the gaps between q- binomial coefficients <i>Communications in Mathematics</i> , 2021, 29 pp. 431 - 442. 10.2478/cm-2020-0010		
WITS-2022-0006914	<b><u>Jamal Sameerah</u></b> , Paliathanasis A	0,50	0,50
	(2020). Approximate symmetries and similarity solutions for wave equations on liquid films <i>Applicable Analysis and Discrete Mathematics</i> , 2021, 14 (N/A) pp. 349 - 363. 10.2298/AADM190523018J		
WITS-2022-0006988	<b><u>Folly-Gbetoula Mensah</u></b>	1,00	1,00
	(2021). Invariance, solutions, periodicity and asymptotic behavior of a class of fourth order difference equations <i>Journal of Computational Analysis and Applications</i> , 2021, 29 (4) pp. 645 - 657.		
WITS-2022-0007470	<b><u>Ssekajja Samuel</u></b>	1,00	1,00
	(2021). A note on contact cr-lightlike submanifolds of an indefinite sasakian manifold <i>Rendiconti del Seminario Matematico</i> , 2021, 79 (N/A) pp. 31 - 43.		

## ROCS Consolidated Report

### Category: Chapter In Book

#### Submission Type: DOE SUBMISSABLE

Publication No.	Publication	Dept Contr	Univ Contr
WITS-2022-0005817	<b><u>Homann Jonathan</u>, <u>Kuo Wen-Chi</u>, <u>Watson Bruce</u></b> (2021). Ergodicity in Riesz spaces Chapter 9 In E. Kikianty & M. Mabula & M. Messerschmidt & JH. van der Walt & M. Worte (eds.), Positivity and its Applications (pp. 193-201). CHAM : Springer Nature. 978-3-030-70973-0	0,42	0,63

### Category: Conference Proceeding

#### Submission Type: DOE SUBMISSABLE

Publication No.	Publication	Dept Contr	Univ Contr
WITS-2022-0006905	<b><u>Conradie Willem</u>, <u>Goranko Valentin</u></b> , Jipsen P Algorithmic Correspondence for Relevance Logics, Bunched Implication Logics, and Relation Algebras via an Implementation of the Algorithm <b>PEARL</b> SWITZERLAND, France 19th International Conference: Relational and Algebraic Methods in Computer Science (RAMiCS 2021) 11-02-2021 - 11-05-2021 : pp 126 - 143	0,34	0,33