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Univ. Ank. Serise A1, V. 51, PP. 1-9, 2002. ISSN 0251-087.  7- Abdel-Baky, R.A. On the Blaschke approach Ruled surface, Tamkang J .  V. 34, No. 2, pp. 107-116, 2003.  8- Abde-All, N. & Abdel-Baky, R.A. & Hamdoon, F. Ruled surfaces with timelike rulings, AMC, 146, pp. 241-253, 2003.  9- Abdel-Baky, R.A. On instantaneous rectilinear Congruences, J. for Geometry and Graphics, V.7, No. 2, pp. 129-135, 2003.  10- Abdel-Baky, R.A. On a line congruence which has the parameter ruled surfaces as principal ruled surfaces, AMC c151, pp. 849-862, 2004.  11- Abdel-Baky, R.A. The Backlund theorem in Minkowski 3-space R1 3 ,  AMC,160, pp. 41-50, 2005.  12- Abdel-Baky, R.A. One-parameter closed dual spherical motions and Holditch theorem, Ostereich. Akad.Wiss.Math- Natur Kl. Sitzungsber AnzeigerAbt. II214: pp. 27-41,2005.  13- Abdel-Baky, R.A. Inflection and torsion line congruence, J. for Geometry and Graphics, V.11, No. 1, pp. 1-14-135, 2008.  14- Abdel-Baky, R.A. & Al-Solamy, F.R. A new geometrical approach to one-parameter spatial motion, J. of Eng. Math., 60, pp. 149-172, 2008.  15- Abdel-Baky, R.A. & Bochary, A.J. A new approach for describing  Instantaneous line congruences, Arch. Math., Tom. 44, p.p. 237-250, 2008.  16- Abdel-Baky, R.A. & Abdellah, H.N. Ruled surfaces in Minkowski3- space, Arch. Math., Tom. 44, pp. 251- 263, 2008.  17- Abdel-Baky, R.A. & Al-Ghefari, R.A. On the one-parameter dual spherical motions , Computer Aided Geometric Design, V. 28, pp.23-37, 2011.  18-Abdel-Baky, R.A. & Al-Ghefari, R.A On the Kinematic geometry of relative screw motions ,J. of Mechanical Science and Technology, 26, (8), pp. 1-7, 2012.  19-Abdel-Baky, R.A. & Shafeyi, B.H. An algebraic approach for system with multiple relative motions, J .of . of Mechanical Science and Technology, 27, (3), pp. 1-8, 2013.  20- Abdel-Baky, R.A., & Aldossary, M.T. The Backlund theorem for timelike surfaces in Minkowski3-space, Far East J. of Applied Math. 78 (1), 33, 2013.  21- Abdel-Baky, R.A., & Aldossary, M.T. [Timelike W-Surfaces in Minkowski 3-Space R3 and the Sinh-Gordon Equation](https://scholar.google.com/scholar?oi=bibs&cluster=10273601966721128049&btnI=1&hl=en), In. J. of Math. and Stat. V. 40, pp. 90-102, 2013.  22- Abdel-Baky, R.A., & Aldossary, M.T. [On the Null Scrolls in Minkowski 3-space](https://scholar.google.com/scholar?oi=bibs&cluster=207570940829967702&btnI=1&hl=en), IOSR Journal of Mathematics, Issue 6, Sep., pp. 11-16, 2013.  23- Abd El-Baky, R. A. & Abdellah, H. N. Tubular surfaces in Minkowski 3-space, J. Adv. Math. Stud. Vol. 7, 2014, No. 2, 01-07.  24- Rashad A. Abdel-Baky & Reem A. Al-Ghefari. Mannheim offsets of dual curves, JARPM Vol. 6(2014), No.2, 75 – 87.  25- Abdel-Baky, R.A. & Al-Ghefari, R.A. An approach for designing a developable surface with a common geodesic curve, Int. J. Contemp. Math. Sciences, Vol. 8, (2013), no. 18, 875 – 891.  26-Abdel-Baky, R.A. Slant Ruled Surface in the Euclidean 3-space E3 , Scientia Magna, Vol. 9 2013, No. 4, 107-112.  27- Al-Ghefari, R.A. & Abdel-Baky, R.A. Kinematic geometry of a line trajectory in spatial motion, J. of Mechanical Science and Technology 29 (9), 2015, 3597-3608.  28- Aldossary, M.T. & Abdel-Baky, R.A. On the Bertrand offsets for ruled and developable surfaces, Boll. Unione Mat. Ital. , 2015, 8:53–64.  29- Abdel-Baky, R.A & Ünlütürk, Y. On the curvatures of spacelike circular surface, Kuwait Journal of Science 43(3) January 2016.  30- Abdel-Baky, R.A. A surface family with a common asymptotic curve in the Euclidean 3-space, Asian J. of Math. and applications, Article ID ama0363, ISSN 2307-7743, <http://scienceasia.asia>, 2016.  31- Abdel-Baky, R.A. Evolutes of hyperbolic dual spherical curve in dual Lorentzian 3-space, International Journal of Analysis and Applications, Volume 15, No. 2 , 2017, DOI: 10.28924/2291-8639-15-2017-114.  32- Abdel-Baky, R.A. Timelike surfaces with a common asymptotic Curve in Minkowski 3-Space E₁³, Riv. Mat. Univ. Parma, Volume 8, No. 2, 379-395 , 2017.   * 33- Abdel-Baky, R.A. Developable surfaces through sweeping surfaces, December 2018 * Bulletin of the Iranian Mathematical Society 45(1), pp. 951-963. * 34- Abdel-Baky, R.A & Ünlütürk, Y . On classification of translation surfaces in pseudo-Galilean 3-space, [Journal of Coupled Systems and Multiscale Dynamics](https://www.ingentaconnect.com/content/asp/jcsmd), Volume 6, Number 3, September 2018, pp. 233-240(8).   35- Abdel-Baky, R.A. On the curvature theory of a line trajectory in spatial kinematics, Commun. Korean Math. Soc., 34, No. 1, pp. 333-349, (2019).  <https://doi.org/10.4134/CKMS.c180087> pISSN: 1225-1763 / eISSN: 2234-3024.  36-Ferhat Tas & Abdel-Baky, R.A . On a spacelike line congruence which has the parameter ruled surfaces as principal ruled surfaces, International Electronic J. of Geometry V. 12 No. 1 pp. 135–143 (2019).  37- Abdel-Baky, R.A. Spacelike surfaces with a common asymptotic Curve in Minkowski 3-Space E₁³, International Journal of Physical Sciences , V. XX(XX), pp. 230-234, 16 August, XXXX, (2019).   |  |  |  | | --- | --- | --- | | |  |  | | --- | --- | | 38- Abdel-Baky, R.A. Timelike line congruence in the dual Lorentzian 3-space D, Int. J. of Geometric Methods in Modern Physics, (2019). DOI: 10.1142/S0219887819501263 (2019) 1950126 .  39- Abdel-Baky, R.A. & Nazra S. Normal ruled surfaces of surface along a curve in Euclidean 3-space, Inter. J. of Analysis and Applications , V. 17, No. 4 (2019).  40- Abdel-Baky, R.A. & Nazra S. H. Osculating ruled surfaces of surface along a curve in Euclidean 3-space, International Journal of Mathematical Analysis Vol. 13, (2019), No. 9, 401 - 421.  41- Abdel-Baky, R.A & Alluhaibi, N. Surfaces Family with a Common Geodesic Curve in Euclidean 3-Space E3 , International Journal of Mathematical Analysis Vol. 13, No. 9 ( 2019), 433 – 447.  42- Khalifa, S. M. Abdel-Baky, R.A & Alharbi, F. On minimal surfaces with the same asymptotic curve in Euclidean space, Appl. Math. Sci.13(21):1021-1031, J. (2019 ), DOI: 10.12988/ams. 2019.99126.  43- Alluhaibi, N& Abdel-Baky, R.A. On the one-parameter Lorentzian spatial motions, Int. J. of Geometric Methods in Modern Physics, [Vol. 16, No. 12, 1950197 (2019)](https://www.worldscientific.com/toc/ijgmmp/16/12). 44- Alluhaibi, N& Abdel-Baky, R.A. On kinematic geometry of hyperbolic dual spherical motions and Euler-Savary's equation, Int. J. of. Geometric methods in Modern Physics, Vol. 16, No. 12 ,( 2019) <https://doi.org/10.1142/S0219887820500796> 45- Abdel-Baky, R.A , Alluhaibi, N, Ali, A. & Mofarreh, F. A study on timelike circular surfaces in Minkowski 3-Space. Int. J. of Geometric Methods in Modern Physics, Vol. 17, No. 6 (2020) 2050074 (19 pages).  46- Abdel-Baky, R.A & Ünlütürk, Y . A new construction on classification of translation surfaces in pseudo-Galilean 3-space, Commun. Fac. Sci. Univ. Ank. Ser. A1 Math. Stat. Volume 69, Number 1, Pages 450.460 (2020).  47- Abdel-Baky, R.A & Ferhat Tas . W-Line congruences, Commun. Fac. Sci. Univ. Ank. Ser. A1 Math. Stat. Volume 69, Number 1, Pages 450.460 (2020).  48- Abdel-Baky, R.A & Yasin Ünluturk. The relatively osculating developable surfaces along a direction curve, Commun. Fac. Sci. Univ. Ank. Ser. A1 Math. Stat. Volume 69, Number 1, Pages 511-527 (2020).  49- Abdel-Baky, R.A & Ünlütürk, Y. A new construction of timelike ruled surfaces with constant Disteli-axis, Honam Math. Journal, 42 No. 3, pp. 551-568  (2020).  50- M. Khalifa Saad, R. A. Abdel-Baky , F. Alharbi1 , A. Aloufi1. Characterizations of Some Special Curves in Lorentz-Minkowski Space, Mathematics and Statistics 8(3): 299-305, (2020).  51- Abdel-Baky, R.A & Naghi, M. F. Timelike sweeping surfaces according to type-2 Bishop frame in Minkowski 3-Space, WSEAS Transactions on Mathematics DOI: 10.37394/23206.2020.19.60.  52- Abdel-Baky, R.A & Ünlütürk, Y. Normal developable surfaces of a surface along a space curve, J. Indones. Math. Soc. Vol. 26, No. 03 (2020), pp. 319-333.  53- Abdel-Baky, R.A & Mofarreh, F. On the determination of ruled and developable surfaces in Euclidean 3-space, WSEAS Transactions on Mathematics DOI: 10.37394/23206. (2020).19.60.  54- Abdel-Baky, R.A & Naghi, M. F. Timelike sweeping surfaces and singularities, Int. J. of Geometric Methods in Modern Physics, Vol. 18, No. 1 (2021).2150006 (17 pages). DOI: 10.1142/S0219887821500067.  56- Alluhaibi, NA, Abdel-Baky, RA , & Mofarreh, A construction of timelike ruled surfaces in Minkowski three-space E3 , [Asian-Euro. J. of Mathematics](https://www.worldscientific.com/worldscinet/aejm), <https://doi.org/10.1142/S1793557121501618>  57- R. A. Abdel-Baky, and M. F, Naghi. Sweeping surfaces with Natural mate curve of a spatial curve in Euclidean 3-Space, WSEAS Trans on Math. DOI: 10.37394/23206.2020.19.63.  58- R. A. Abdel-Baky, and F. Mofarreh. Sweeping surface of center curve on surface in Euclidean 3-space E 3, WSEAS Trans on Math. DOI: 5106-1324- 2020-11-04.  59- R. A. Abdel-Baky, and M. F, Naghi. Timelike sweeping surfaces according to type-2 Bishop frame in Minkowski 3–Space, WSEAS Trans. on Math, Volume 19, 2020. DOI: 5106-1315. 2020-09-30.  60- R. A. Abdel-Baky, F. Mofarreh, and N. Alluhaii. Spacelike sweeping surfaces and singularities in Minkowski 3-Space, Mathematical Problems in Engineering, Volume 2021, Article ID 5130941.   * 61-M. Khalifa Saad, R. A. Abdel-Baky , On ruled surfaces according to Quasi-frame in Euclidean 3-space, Aust. J. of Math. Ana and Appl., May 2020. pp. 16. * 62-R. A. Abdel-Baky& M. Khalifa Saad. Some characterizations of dual curves in dual 3-space D**3 ,** [AIMS Mathematics](https://www.aimspress.com/journal/math), 2021, [Volume 6](https://www.aimspress.com/math/article/archives), [Issue 4](https://www.aimspress.com/math/article/2021/4/archive-articles): 3339-3351.  doi: [10.3934/math. 2021200](https://doi.org/10.3934/math.2021200) * 63- F. Mofarreh, R. A. Abdel-Baky, NA. Alluhaibi, Sweeping surfaces with Darboux frame in Euclidean 3-space, Aust. J. Math. Anal. Appl. Vol. 18 (2021), No. 1, Art. 4, 10 pp. AJMAA.   64- R. A. Abdel-Baky, and F. Mofarreh. Sweeping surfaces according to type-2 Bishop frame in Euclidean 3-space, Asian-European Journal of Mathematics, (2021) 2150184 (14 pages).  65 - F. Mofarreh, RA. Abdel-Baky, and MF. Developable surfaces through spacelike sweeping surfaces in Minkowski 3–Space, Appl. Math. Inf. Sci. 15, No. 3, 263-270 (2021).  66- Abdel-Baky, R.A & Naghi, M. F. A study on a line congruence as surface in the space of lines, AIMS Mathematics, 6(10): 11109–11123.  67- Abdel-Baky, R.A & Naghi, M. F. Spacelike ruled and developable surfaces in Minkowski 3-space, Int. J. of Geometric Methods in Modern Physics, (accepted).  Password at the King. University: ZIIOj7-mt  Us: 00057696  US at Jeddah Univ. 04220654  Password: Aa145576860  raabdelhafez@uj.edu.sa |  | |   *Supervisors*   * 1. Hamdi Noor Elaine Abdellah, Deformations of Jeneralized Hyperruled Surfaces and Their Stability in the Euclidean space n + 1. , Ph. D., 26 March 2000.  Supervisors : Mohamed Abdal Latif Soleiman Nassar Hassan Abdel Aal, Ato Rochelle, Rashad Abdel-Sattar Abdel-Baky.   2. Fathy Mohamed Hamdan, Ruled Surfaces in Lorentz 3– Dimensional Space R 3,. , M. Sc, 26 March 2000. Supervisors : Prof. Dr. Ahmed Abou Moncef Allam,Prof. Dr. Nassar Hassan Abdel Aal, Dr. Rashad Abdel-Sattar Abdel-Baky.   *Awards*   1. King Abdul-Aziz University Prize for Scientific Distinction, 1433-1434. 2. King Abdul-Aziz University Prize for Scientific Distinction, 1436-1437. 3. Selected as a Highly Cited Researcher, Thomson Reuters 2016. |