



Tytuł: *O przestrzeniach regularnych, które nie są całkowicie regularne.*

#### Literatura

[1] K. C. Ciesielski oraz J. Wojciechowski, *Cardinality of regular spaces admitting only constant continuous functions*. Topology Proc. 47 (2016), 313–329.

[2] A. Mysior, *A regular space which is not completely regular*. Proc. Amer. Math. Soc. 81 (1981), no. 4, 652–653.

XX

Tytuł: *O hipotezie Bertranda.*

#### Literatura

[1] M. Aigner oraz G. M. Ziegler, *Proofs from The Book*. Including illustrations by Karl H. Hofmann. Third edition. Springer-Verlag, Berlin, 2004. viii+239 pp.

[2] M. El Bachraoui, *Primes in the Interval  $[2n, 3n]$* . Int. J. Contemp. Math. Sci., Vol. 1, 2006, no. 13, 617 - 621

[3] A. Loo, *On the Primes in the Interval  $[3n, 4n]$* . Int. J. Contemp. Math. Sciences, Vol. 6, 2011, no. 38, 1871 - 1882

[4] J. Meher oraz M. R. Murty, *Ramanujan's proof of Bertrand's postulate*. Amer. Math. Monthly 120 (2013), no. 7, 650–653.

[5] W. Sierpiński, *Teoria liczb*. 3rd ed. Monografie Matematyczne, Tom XIX. no publisher given, Warszawa, Wrocław, 1950. vi+544 pp.

XX

Title: *Gra silnie Choquet.*

#### Literatura

[1] L. Yengulalp *Coding strategies, the Choquet game, and domain representability*. Topol. Appl. (2016) 202, 384–396.

[2] G. Choquet, in *Lectures in Analysis*. vol. I, Benjamin, New York, 1969

[3] F. Galvin, R. Telegarsky *Stationary strategies in topological games* Topol. Appl. 22 (1986)

### Wymagany zaliczony kurs topologii

XX

Title: *Przestrzenie reprezentowalne przez pewne częściowe porządki.*

#### Literatura

[1] S. Abramsky, A. Jung, in: S. Abramsky, D.M. Gabbay, T.S.E. Maibaum (Eds.) *Handbook of Logic in Computer Science*, vol. III, Oxford University Press, Oxford, 1994.

[2] H. Bennett, D. Luzer *Domain representable spaces*, Fund. Math. 189 (2006) 255-268

[3] K. Martin *Topological games in domain theory* Topol. Appl. 129 (2003), 177-186.

### Wymagany zaliczony kurs topologii

XX

Title: *Pewne rodzaje zupełności w topologii.*

#### Literatura

[1] W. Fleissner, L. Yengulalp *From subcompact to domain representable*. Topol. Appl. (2015) 195, 174-195.

[2] J. de Groot *Subcompactness and the Baire category theorem* Indag. Math. 22 (1963), 761-767

[3] H. Bennett, D. Luzer *Strong completeness properties in topology*, Quest. Answ. Gen. Topol. 27 (2009) 107-124

### Wymagany zaliczony kurs topologii



Title: *Regular but not completely regular spaces.*

#### References

[1] K. C. Ciesielski and J. Wojciechowski, *Cardinality of regular spaces admitting only constant continuous functions.* Topology Proc. 47 (2016), 313–329.

[2] A. Mysior, *A regular space which is not completely regular.* Proc. Amer. Math. Soc. 81 (1981), no. 4, 652–653.

XX

Tytuł: *Bertrand's postulate.*

#### References

[1] M. Aigner and G. M. Ziegler, *Proofs from The Book.* Including illustrations by Karl H. Hofmann. Third edition. Springer-Verlag, Berlin, 2004. viii+239 pp.

[2] M. El Bachraoui, *Primes in the Interval  $[2n, 3n]$ .* Int. J. Contemp. Math. Sci., Vol. 1, 2006, no. 13, 617 - 621

[3] A. Loo, *On the Primes in the Interval  $[3n, 4n]$ .* Int. J. Contemp. Math. Sciences, Vol. 6, 2011, no. 38, 1871 - 1882

[4] J. Meher and M. R. Murty, *Ramanujan's proof of Bertrand's postulate.* Amer. Math. Monthly 120 (2013), no. 7, 650–653.

[5] W. Sierpiński, *Teoria liczb.* 3rd ed. Monografie Matematyczne, Tom XIX. no publisher given, Warszawa, Wrocław, 1950. vi+544 pp.

XX

Title: *The strong Choquet game .*

#### References

[1] L. Yengulalp *Coding strategies, the Choquet game, and domain representability.* Topol. Appl. (2016) 202, 384–396.

[2] G. Choquet, in *Lectures in Analysis.* vol. I, Benjamin, New York, 1969

[3] F. Galvin, R. Telegarsky *Stationary strategies in topological games* Topol. Appl. 22 (1986)

### Required topology course completed

XX

Title: *Domain representable spaces.*

#### References

[1] S. Abramsky, A. Jung, in: S. Abramsky, D.M. Gabbay, T.S.E. Maibaum (Eds.) *Handbook of Logic in Computer Science*, vol. III, Oxford University Press, Oxford, 1994.

[2] H. Bennett, D. Luzer *Domain representable spaces*, Fund. Math. 189 (2006) 255-268

[3] K. Martin *Topological games in domain theory* Topol. Appl. 129 (2003), 177-186.

### Required topology course completed

XX

Title: *Completeness properties in topology.*

#### References

[1] W. Fleissner, L. Yengulalp *From subcompact to domain representable.* Topol. Appl. (2015) 195, 174-195.

[2] J. de Groot *Subcompactness and the Baire category theorem* Indag. Math. 22 (1963), 761-767

[3] H. Bennett, D. Luzer *Strong completeness properties in topology*, Quest. Answ. Gen. Topol. 27 (2009) 107-124

### Required topology course completed