

**MINIMAL LINDELOFF  $T_3$  SPACES AND COMPARISON OF THOSE  
WITH MINIMAL PARACOMPACT  $T_2$  SPACES**

SNEHADRI SEKHAR MANDAL

ABSTRACT. In this paper we shall discuss about minimal Lindeloff,  $T_3$  spaces and after that we compare minimal Lindeloff  $T_3$  spaces with minimal paracompact  $T_2$  spaces.

REFERENCES

- [1] C.K. Basu and S.S. Mandal: *Maximal Tychonof spaces and normal isolator covers*, Publ. Inst. Math. (Beograd) (N.S.), **99**(2016), No. 113, 217-225.
- [2] M.P. Berri: *Minimal Topological Spaces*, Trans. Amer. Math. Soc., **108**(1963), 97-105.
- [3] S.S. Mandal: *Maximal Tychonoff spaces and minimal paracompact  $T_2$  spaces*, Acta Math. Hungar., **175**(2025), No. 2, 422-432.
- [4] Lynn A. Steen, Jr. J. Arthur Seebach: *Counterexamples in Topology*, Holt, Rinehart and Winston, Inc., 1970.
- [5] S. Willard: *General Topology*, Addison-Wesley, Reading, Mass, 1970.

*Krishnagar Women's Collegey*  
*Department of Mathematics*  
*Nadia, West Bengal-741101, India*  
*Email address: snehadrisekharmandal@gmail.com*

---

*Received:* December 08, 2025. *Revised:* March 19, 2026.

2020 *Mathematics Subject Classification:* 54E15, 54E99.

*Key words and phrases:* Star refinement, refinement, normal isolator cover, paracompact, Lindeloff, Tychonoff, subtopology, metrizable.