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Partitioning bases of topological spaces

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**Abstract:** We investigate whether an arbitrary base for a dense-in-itself topological space can be partitioned into two bases. We prove that every base for a  $T_3$  Lindelöf topology can be partitioned into two bases while there exists a consistent example of a first-countable, 0-dimensional, Hausdorff space of size  $2^{\omega}$  and weight  $\omega_1$  which admits a point countable base without a partition to two bases.

## Keywords: base; resolvable; partition AMS Subject Classification: 54A35, 03E35, 54A25

## References

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