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ringed space

Canonical name RingedSpace

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Entry type Definition Classification msc 18F20 A ringed space is a topological space X together with a sheaf of commutative rings \mathcal{O}_X on X.

Examples.

- 1. Let X be a topological space and let \mathcal{O}_X be the sheaf of continuous functions.
- 2. Let X be a differentiable manifold and let O_X be the sheaf of differentiable functions.

References

[1] I.R. Shafarevich, Basic Algebraic Geometry, Springer-Verlag, 1977