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analytic sheaf

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Let M be a complex manifold. Let \mathcal{O} be the sheaf of germs of analytic functions (which is a sheaf of rings) and let \mathcal{F} be a sheaf of \mathcal{O} -modules. \mathcal{F} is then called an *analytic sheaf*.

Example. *Suppose X is an analytic vector bundle over M . Then the sheaf of germs of analytic sections of X is an analytic sheaf.*

Example. *The sheaf of germs of meromorphic functions on M is an analytic sheaf.*

References

- [1] Lars Hörmander. , North-Holland Publishing Company, New York, New York, 1973.
- [2] Steven G. Krantz. , AMS Chelsea Publishing, Providence, Rhode Island, 1992.