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## Diederich-Fornaess theorem

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**Theorem** (Diederich-Fornaes). *Let  $X \subset \mathbb{C}^n$  be a compact real analytic subvariety. Then  $X$  contains no germ of a nontrivial complex analytic subvariety.*

In particular, all compact real analytic subvarieties (or submanifolds) are D'Angelo finite type at every point.

## References

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- [3] Klas Diederich, John E. Fornaess. *Ann. Math.* (2) **107** (1978), no. 2, 371–384.