SEMINARIO DI GEOMETRIA E ALGEBRA

UNIBA - POLIBA

Mercoledì 21 Maggio 2025 - Ore 14:00, aula I
Dipartimento di Matematica UniBa

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Indices and Residues of Holomorphic Foliations

Abstract. The classical theorem of Poincaré-Hopf about the index of vector fields on smooth manifolds has given rise to a vast literature concerning indices of vector fields and Baum-Bott residues for singular holomorphic foliations. In this talk we will review some of the foundational aspects of this theory having as a spearhead the GSV-index, an invariant that generalizes the Poincaré-Hopf index to the case of singular varietes.

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