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Cylinders in algebraic manifolds

A smooth projective variety X is said to be cylindrical if it contains a cylinder, i.e., a Zariski open subset U isomorphic to a product $Z \times \mathbb{A}^1$ for some variety Z . The existence of a cylinder is closely related to the existence of an effective action of the additive group \mathbb{G}_a on an affine cone over X . I am planning to survey old and new results on the existence of a cylinder on algebraic varieties focusing on the case of varieties with $b_2(X) = 1$.

SCIENTIFIC SEMINAR
“DIFFERENTIAL GEOMETRY AND APPLICATIONS”

headed by Academician of RAS Anatoly T. Fomenko

The seminar takes place online in ZOOM on Mondays
from 4:45 p.m. to 6:20 p.m. (Moscow time)

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