

**Prof. Claudio Gorodski**

Universidade de São Paulo

## **Almost symmetric homogeneous submanifolds**

**24. Juli 2025– 16:15 Uhr**

**Raum 7.530**

Abstract: We introduce the class of almost symmetric submanifolds of Euclidean space, a close relative of symmetric submanifolds, namely, we require that the extrinsic symmetry has a one-dimensional fixed point set. We use the rank theorem for submanifolds to reduce the classification to the following cases:

1. homogeneous submanifolds of codimension 3.
2. most singular orbits in an irreducible  $s$ -representation; and
3. almost most singular orbits in an irreducible  $s$ -representation (in this case, the submanifold is a partial holonomy tube of a most singular orbit through a vector lying in a 2-dimensional factor of the normal holonomy).

We then completely classify these spaces. This is joint work with Carlos Olmos.

