

SEMINARIO DI GEOMETRIA

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A complex 4-ball with non-standard
contact boundary sphere

We show that the 4-ball admits a non-Kähler complex structure with strictly pseudo-concave boundary. It turns out that the contact structure determined on the boundary S^3 by the complex tangents, is overtwisted. Moreover, there are closed holomorphic curves inside the 4-ball. This is a joint work with Naohiko Kasuya, also based on a collaboration with Antonio J. Di Scala.