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## **Twist Geometry of the C-Map and HK/QK correspondence**

**3. Juni 2018 – 16.15 Uhr**

**Seminarraum IGT, Raum 7.530, Pfaffenwaldring 57**

Abstract: This talk will be an introduction of the twist construction [4] and its application to the description of the c-map [1] between projective special Kaehler, and quaternionic-Kaehler manifolds. Based on joint work [2,3] with Andrew Swann.

References:

- [1] S. Cecotti, S. Ferrara, L. Girardello "Geometry of Type II Superstrings and the Moduli of Superconformal Field Theories", Int. J. Mod. Phys. A4 (1989), 2475-2529.
- [2] O. Macia, A. F. Swann, "Twist geometry of the c-map", Comm. Math. Phys. 336 (2015), 1329–1357.
- [3] O. Macia, A. F. Swann, "Elementary deformations and the hyperKähler-quaternionic Kähler correspondence", in Real and complex submanifolds, 339–347, Springer Proc. Math. Stat. 106 (2014).
- [4] A.F. Swann, "Twisting Hermitian and hypercomplex geometries", Duke Math. J. Volume 155, Number 2 (2010), 403-431.

