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**A diameter gap for isometric quotients  
of the unit sphere**

**26.07.2022 – 11:00 Uhr**

**IGT-Seminarraum 7.530, Pfaffenwaldring 57**

Abstract: We will explain our proof of the existence of  $\varepsilon > 0$  such that every quotient of the unit sphere  $S^n$  ( $n \geq 2$ ) by a isometric group action has diameter zero or at least  $\varepsilon$ . The novelty is the independence of  $\varepsilon$  from  $n$ . The classification of finite simple groups is used in the proof.

(Joint work with C. Lange, A. Lytchak and R. A. E. Mendes.)

