

# (NON)-EXISTENCE OF COMPLEX STRUCTURES ON $S^6$

March 27<sup>th</sup> – 30<sup>th</sup>, 2017

Philipps-Universität Marburg

time	Monday 27 <sup>th</sup>	Tuesday 28 <sup>th</sup>	Wednesday 29 <sup>th</sup>	Thursday 30 <sup>th</sup>
9.00–10.00	<i>registration</i>	Ferreira	Lehn	Tralle
10.00–10.30		<i>coffee break</i>	<i>coffee break</i>	<i>coffee break</i>
10.30–11.00		Kruglikov	Schinko	Anthes
11.00–11.30		<i>lunch break</i>	<i>lunch break</i>	Kirschner
11.30–12.30		Parton	Meinke	Draper Fontanals
12.30–14.00		<i>coffee break</i>	<i>coffee break</i>	<i>coffee break</i>
14.00–15.30	Borówka	Angella	Upmeier	
15.30–16.00				
16.00–17.00				
17.00–17.30				
19.00–			Social dinner	

- Registration at the 8<sup>th</sup> floor
- All talks take place in Hörsaal IV (Room 04A30)  
(map at [http://www.uni-marburg.de/fb12/en/contact/floorplans?set\\_language=en](http://www.uni-marburg.de/fb12/en/contact/floorplans?set_language=en))
- All coffee breaks take place in Seminarraum VII (Room 05D01)
- Poster session takes place in the same room as coffee breaks
- Social dinner at Rotkehlchen: <http://waggonhalle.de/rotkehlchen/rotkehlchen-start.html>

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## TOPICS

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- (1) **Almost complex structures on spheres** – *Maurizio Parton*
- (2)  **$S^6$  as a nearly Kähler manifold** – *Aleksandra Borówka*
- (3) **Orthogonal complex structures near the round  $S^6$**  – *Ana Cristina Ferreira and Boris Kruglikov*
- (4) **Dolbeault cohomology and Frölicher spectral sequence** – *Benedict Meinke*
- (5) **Hodge numbers of a hypothetical complex structure on  $S^6$**  – *Daniele Angella*
- (6) **Algebraic dimension and automorphism group of a hypothetical complex structure on  $S^6$**  – *Christian Lehn and Caren Schinko*
- (7) **The exceptional Lie group  $G_2$**  – *Cristina Draper Fontanals*
- (8) **Chern's contribution** – *Aleksy Tralle and Markus Upmeyer*
- (9) **Further approaches to the (non)-existence** – *Ben Anthes and Tim Kirschner*