Abstract. The topics discussed at the meeting were Kähler geometry, geometric evolution equations, manifolds of nonnegative curvature, metric geometry and geometric representations of groups. The choice of topics reflects current trends in the development of differential geometry.

Mathematics Subject Classification (2010): 53C.

Introduction by the Organisers

The workshop *Differentialgeometrie im Großen* was held June 29- July 3, 2015. The participants were specialists in differential geometry and its neighboring fields, covering a broad spectrum of subareas which are in the focus of current developments.

The lectures during the five days of the meeting were roughly organized according to different thematic themes.

The first day of the meeting, was devoted to differential geometric aspects of Kähler geometry and special holonomy.

The talks of the second day centered around the interplay between differential geometry and geometric analysis, in particular new developments concerning the Ricci flow and geometric measure theory.

On Wednesday (with only three lecture due to the traditional hike), metrics of non-negative curvature were discussed.

The morning lectures of the last two days were mainly devoted to metric geometry and geometric representations of groups. On Thursday afternoon, four young people gave short talks.
The meeting gave a good overview of the current developments, and showed significant progress in the field. The workshop was attended by researchers from around the world, ranging from graduate students to scientific leaders in their areas.

The atmosphere during the meeting was lively and open, and greatly benefited from the ideal environment at Oberwolfach.

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