# Oberwolfach Seminar:
# Recent Advances on the Global Nonlinear Stability of Einstein Spacetimes

**Date:** 15 May - 21 May 2016

**Organizers:**

Mihalis Dafermos, Princeton
Philippe G. LeFloch, Paris
Qian Wang, Oxford

**Program:**

Einstein's field equation of general relativity is one of the most important geometric partial differential equations. In recent years, the mathematical research in general relativity has made spectacular progress in major directions. This Seminar will provide an introduction to some of these important advances, especially:

- the exterior stability and internal structure of black hole spacetimes
- the global nonlinear stability of Minkowski spacetime
- self-gravitating massive fields and the theory of modified gravity

**Introductory reading:**

R.M. Wald, *General relativity*,
University of Chicago Press, 1984.

**Deadline for applications:**

13 March 2016

to    seminars@mfo.de,   for details see
http://www.mfo.de/scientific-programme/meetings/oberwolfach-seminars