



Combinatorics of Fullerenes and Toric Topology



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Invited speaker of ICM (1974)

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地点/Venue : 数学楼会议室 (100-M)

Meeting Room (100-M), Math Building

报告摘要/Abstract :

A fullerene is a spherical-shaped molecule of carbon such that any atom belongs to exactly three carbon rings, which are pentagons or hexagons. Fullerenes have been the subject of intense research, both for their unique quantum physics and chemistry, and for their technological applications, especially in nanotechnology.

Toric topology emerged in the end of the 1990s on the borders of equivariant topology, algebraic and symplectic geometry, combinatorics and commutative algebra.

As one of the main founders of Toric Topology and an author of applications to the fullerene theory, Prof. Buchstaber will present some recent stories about combinatorics of fullerenes and toric topology.

For full abstract of the talk, please see
<http://math.sjtu.edu.cn/conference/Bannai/2017/talk.php?20170504A>