**ATUL GOTHE**, University of Warsaw / IMPAN

*A quantum CW-complex for quantum real projective spaces*

A CW-complex is a topological space which can be built up inductively by attaching n-balls $B^n$ along their boundary (n-1)-spheres $S^{n-1}$. Quantum CW-complexes generalise the classical construction by dualising the pushouts of topological spaces to pullbacks of C*-algebras, and allowing the C*-algebras to be noncommutative. Topological graphs, introduced by Katsura, provide a generalisation of discrete graph algebras and homeomorphism C*-algebras and provide a convenient framework to describe various well-known C*-algebras. Additionally, they have nice correspondence between the algebraic properties of the C*-algebras, and combinatorial and topological properties of the graphs. Using this notion of topological graphs, I'll discuss a quantum CW-complex structure for quantum real projective spaces.