



*Centre Interfacultaire Bernoulli (CIB)*



*Thursday, June 5<sup>th</sup> 2008 from 2 PM to 4 PM*

*In room AAC 006*

*To be followed by discussion*

***“Hyperbolic Coxeter polytopes”***

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*(Fribourg)*

***Abstract:***

A Coxeter polytope is a polytope whose dihedral angles are integer submultiples of  $\pi$ . Coxeter polytopes arise as fundamental domains of discrete reflection groups acting in spaces of constant curvature. In contrast to spherical and Euclidean ones, hyperbolic Coxeter polytopes are far from being classified. I will give an overview of known results concerning the classification, as well as of recent progress obtained by applying of new combinatorial approach. As a byproduct we get some conjectures on the combinatorics of polytopes.