Thursday, June 7th 2007 at 11:00 AM
In Room AAC 006

To be followed by discussion

“Asymptotic Dimension of Coxeter Groups”

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Target audience: doctoral students, researchers and Professors in Mathematic.

Abstract:

We prove the inequality \( \operatorname{as} A \ast_C B \leq \max\{ \operatorname{as} A, \operatorname{as} B, \operatorname{as} C + 1 \} \) under certain conditions on a subgroup \( C \) of finitely generated groups \( A \) and \( B \). In particular, we prove it for the case when \( C \) is normal in \( A \) and \( B \). Then we apply this inequality to show that the asymptotic dimension of any right-angled Coxeter group does not exceed the dimension of its Davis' complex.