Graduate Seminar in Mathematics

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Dimension of Groups

Abstract:
Given a group G, we can assign a "dimension" to G in a variety of ways. One approach is topological, making use of classifying spaces, while another is algebraic and uses projective resolutions. The Eilenberg - Ganea conjecture asks if these two notions of dimension are equivalent for dimension 2.

I will attempt to provide sufficient background to understand the statement of the conjecture and briefly talk about what is already known.