A quick introduction to Baum-Connes' Conjecture

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Following [1],[2], we give a brief introduction to the formulation of the Baum-Connes conjecture in terms of the analytical assembly map. We restrict ourselves mainly to discrete groups. If time permits, we shall mention some implication of Baum-Connes' conjecture as well

References

[1] **A. Valette**, *Introduction to the Baum-Connes Conjecture*, ETH (Zurich) Lecture Notes, Bikhäuser (to appear), also available at http://www.math.ethz.ch/ indira/BC.dvi.

[2] **A. Valette**, *On the Baum-Connes assembly map for discrete groups, with an appendix by Dan Kucerovsky*, available at http:// www.unine.ch/math/preprints/preprints.html.