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Approximation Properties for Dynamical Systems and Groupoids

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In this talk I will present several notions of approximation properties for groups, group actions and more generally groupoids. The notions to be discussed are mainly amenability, the Haagerup property and exactness. These notions are well understood for groups, yet there are still some questions that need to be clarified for groupois. For simplicity, this talk will be limited to discrete groups, discrete group actions and étale groupoids.

References

1. Notes by Jean Renault:
http://www.univ-orleans.fr/MAPMO/membres/renault/books/IMPA_09.pdf
2. C. Anantharaman Delaroche: Amenability and exactness for dynamical systems and their C*-algebras, Trans. Amer. Math. Soc. 354 (2002), 4153-4178.