Kleines Seminar, RCOA at ECNU

学年　2022 年秋季学期

地点　线上腾讯会议 ID 766 3913 8807/算子代数研究中心　　时间　每周二 8:30 a.m.

报告者/时间	报告内容
郭亮 博士 9 月 20 日	Title：The Novikov conjecture for coarsely embeddable groups Abstract：In this talk, I will present two different approaches to the Novikov conjecture for a group which admits a coarse embedding into Hilbert space. One is by using the Descent Principle and Yu's theorem on the coarse Baum-Connes conjecture for coarsely embeddable spaces. Another is by using the famous Dirac-dual-Dirac method which is based on Tu's work on the Baum-Connes conjecture for a-T-menable groupoids.
张建国 博士后 9 月 27 日	Title: Banach property RD and it's applications Abstract: We will talk about Banach property RD for groups introduced by B. Liao and G. Yu. In particular, we want to discuss its applications to K-theory and the idempotent problem of group Banach algebras. Some results in this talk are based on a joint work with Yifan Liu.

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姚秀峰 博士 10 月 11 日	Title: The Baum-Connes conjecture for groups which act properly and Isometrically on Hilbert space Aabstract: In this talk, I will briefly introduce Nigel Higson and Gennadi Kasparov's work in the paper " Operator K-theory for groups which act properly and isometrically on Hilbert space ". They proved the Baum-Connes conjecture of the countable discrete groups, which act isometrically and metrically in Euclidean space. First, I will introduce the amplification of C*-algebra and E-theory, and then I will introduce the construction of Baum Connes assembly map and the idea of theorem proving.
钱进 博士 10 月 18 日	Title: On Kirchberg's Embedding Problem In the talk series, I will show some results by Goldbring and Sinclair in their 2014 paper *On Kirchberg's Embedding Problem*.
向少聪 博士 11 月 1 日	Title: The index and K-homology class of de Rham operator on compact Riemannian manifold Abstract: In this talk, I will briefly introduce a special elliptic differential operator on Riemannian manifold —— de Rham operator, whose index is equal to the Euler character of the manifold when this manifold is compact, and show the connection between its K-homology class and the Euler character of the manifold.

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王子竞 博士 11 月 8 日	Title: Localization Formula and Bott Residue Formula Abstract: we will first prove an equivariant localization formula due to Berline-Vergne and Atiyah-Bott , then show how the Bott Residue formula can be deduced from it.
王燕如 博士 11 月 15 日	Title: Persistence approximation property for Lp operator algebras Abstract: In this talk, I will introduce quantitative assembly maps for Lp operator algebras when $p \in [1, \infty)$. Moreover, I will discuss the persistence approximation property for crossed product Lp operator algebras and present the main theorem of this paper.
韦斯翰 博士 11 月 22 日	Title: Shifts systems Abstract: In this talk, I will introduce my results on the nuclear dimension of Cuntz-Pimsner algebras (joint with Zhuofeng He), and some interesting information of The Embedding Problem.

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王若飞 博士 11 月 29 日	Title: Simple C*-algebras tensored with a UHF-algebra Abstract: A classification of simple C*-algebras by Rordam.
罗政 博士 12 月 13 日	Title: Dual agebra and K-homology Abstract: In this talk I will give a brief introduction to duality theory and k-homology.

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