



Kleines Seminar, RCOA at ECNU

学年 2024 年春季学期, 2024 年 4 月 2 日起至学期末

地点 理科大楼 A503 室

时间 周二下午 14 点至 15 点

报告者/时间	报告内容
张晨 博士 4 月 29 日	<p>Title: Fibred coarse embedding into Hilbert space</p> <p>Abstract: In this talk, we introduce the concept of fibred coarse embedding into Hilbert space for metric spaces, generalizing Gromov's notion of coarse embedding into Hilbert space. Roughly speaking, a metric space X admits such an embedding implies that, although the space X may not be coarsely embedded into Hilbert space, large bounded subsets of X can be coarsely embedded into Hilbert space within a common distortion as long as these subsets are far away towards infinity. It turns out that a large class of expander graphs admit such an embedding.</p>
向少聪 博士 5 月 6 日	<p>Title: An elementary introduction to asymptotic dimension</p> <p>Abstract: In this talk, I will introduce the conception of asymptotic dimension, which is an important coarse invariant. I will briefly prove some basic properties of the asymptotic dimension.</p>





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<p>Georgii Makeev 博士 5月13日</p>	<p>Title: An endofunctorial approach to E-theory</p> <p>Abstract: We are going to describe the Connes-Higson E-theory in terms of special homotopy classes of $*$-homomorphisms induced by some Roe algebra functors. We also introduce an E-theoretic analog of the famous isomorphism of the Kasparov KK-theory and invertible extensions.</p>
<p>郭亮 博士 5月20日</p>	<p>Title: On the Furstenberg boundary</p> <p>Abstract: The Furstenberg boundary of a group is a universal compact space on which the group action is minimal and strongly proximal. The study of the Furstenberg boundary intertwines dynamical system theory, geometric group theory, and operator theory. In this talk, I will briefly introduce its relationship with operator systems, and introduce a new characterization of amenability and Property A by using the Furstenberg boundary.</p>

