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The coarse Baum-Connes conjecture for certain relative expanders

In 2000, G. Yu proved the coarse Baum-Connes conjecture for the metric space which admits a coarse embedding Hilbert space. However, there are counterexamples which are not coarsely embeddable into Hilbert spaces. Those counterexamples are so-called relative expanders. In this talk, I will talk about the coarse Baum-Connes conjecture for the relative expanders constructed by G. Arzhantseva and R. Tessera, based a joint work with Qin Wang and Guoliang Yu.