Speaker: **Wang, Bai-Ling**
Title: *Gluing theorem, Seiberg-Witten invariants and Casson-Walker invariants*
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Abstract: Gluing theorem for both 3-dimensional and 4-dimensional Seiberg-Witten monopoles will be established. We then discuss its application to the Seiberg-Witten invariants for 4-manifolds and confirm the equivalence of Seiberg-Witten invariants and the Casson-Walker invariants for any rational homology 3-sphere.