Title: A unified proof of some conjectures on cycle lengths

Speaker: Jie Ma, University of Science and Technology of China

Abstract: We prove a tight minimum degree condition in general graphs for the existence of paths between two given endpoints, whose lengths form a long arithmetic progression with common difference one or two. This allows us to obtain a number of exact and optimal results on cycle lengths in graphs of given minimum degree, connectivity or chromatic number. Joint work with Jun Gao, Qingyi Huo and Chun-Hung Liu.