Presenters: CHEN, Yuan; DU, Heng; LYU, Wenqi; NG, Wing-kit; Yuan, Zhiri; ZHANG, Rong

Define "winding numbers" and present a proof of the Jordan-Brouwer separation theorem following the hints in [Guillemin-Pollack] pp.85-91. Time permitting, give also a short discussion on the Borsuk-Ulam theorem (pp.91-93 in [Guillemin-Pollack]).

Presentation length: 30-45 minutes.