

## **Analysis Seminar**

**Title:** A strong form of Plessner's theorem II

**Speaker:** Stpehrn Gardiner

Date: Tue 18th February 2020 at 4:20PM

Location: Seminar Room SCN 1.25

**Abstract:** Let f be a holomorphic, or even meromorphic, function on the unit disc. Plessner's theorem then says that, for almost every boundary point , either (i) f has a finite nontangential limit at , or (ii) the image f(S) of any Stolz angle S at is dense in the complex plane. This paper shows that statement (ii) can be replaced by a much stronger assertion. This new theorem and its analogue for harmonic functions on halfspaces also strengthen classical results of Spencer, Stein and Carleson.

(This is joint work with Myrto Manolaki.)