

## Analysis Seminar

Title:	A strong	form	of	Plessner's	theorem	I
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**Speaker:** S. Gardiner

**Date:** Tue 11th 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.)