Boundary behaviour of holomorphic functions

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The study of the boundary behaviour of holomorphic functions is of significant importance in many areas in Analysis. In this talk I will present an overview of my research on this topic, focusing on two theorems that complement and strengthen some classical results. The first one concerns Abel's Limit Theorem, which connects the behaviour of a Taylor series as we approach the boundary from the interior with its behaviour on the boundary itself. The second one strengthens Plessner's and Spencer's theorems about the angular behaviour of holomorphic functions on the unit disc. As we will see, these two theorems find applications to certain classes of holomorphic functions with wild boundary behaviour. (Based on joint works with Stephen Gardiner, Stéphane Charpentier and Konstantinos Maronikolakis.)