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Towards a notion of mesoscopy

The theory of endoscopy concerns the transfer of distributions between a reductive group G and G', an endoscopic group of G. At the heart of Langlands' original study on Beyond Endoscopy is the notion of stable transfer between groups G and G', where G' is no longer required to be an endoscopic group. Arthur refered to these as 'beyond endoscopic groups,' and which we call mesoscopic groups. In this talk I will introduce these ideas, the role they play in functoriality, and open problems that arise in their study.