

1176-22-195

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Warburger Strasse 100, 33098 Paderborn, Germany, and **Bernhard Krötz**, **Eric Opdam** and  
**Henrik Schlichtkrull**. *Ellipticity and discrete series*.

In this talk I will explain by elementary means why the existence of a discrete series representation of a real reductive group  $G$  implies the existence of a compact Cartan subgroup of  $G$ . The presented approach has the potential to generalize to real spherical spaces. (Received January 23, 2022)