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## **Zheng LIU. $p$ -adic families of Klingen-Eisenstein series and theta series.**

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Abstract:  $p$ -adic interpolations of Eisenstein series and theta series give explicit examples of  $p$ -adic families of automorphic forms. Their congruences with other automorphic forms help show lower bounds of certain Selmer groups. I will first explain the construction of a  $p$ -adic Klingen Eisenstein family for symplectic groups, and then discuss its connection with a  $p$ -adic family of theta lifts.