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Beyond Endoscopy via Poisson Summation

Langlands proposed a strategy called Beyond Endoscopy to prove the principle of functoriality, which is one of the central questions of present day mathematics. A first step was achieved by Ali Altug who worked with the group $GL(2)$ over the rationals. This project generalizes Altug's result to a number field. In this talk we will emphasize some interesting differences between our work and Altug's work. This is joint work with Malors Espinosa-Lara, Debanjana Kundu and Tian An Wong.