

Arithmetic properties of Fredholm series

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The slopes of modular forms are encoded in the slopes of the Newton polygon of the Fredholm determinant of U_p acting on spaces of overconvergent p -adic modular forms. In this talk I will discuss an old technique, due to Koike, of computing this characteristic power series, and give new results regarding the mod p reduction of this series.

This is joint work with Rob Pollack.

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