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Preston Wake* (`pwake@ias.edu`). *The Eisenstein ideal*. Preliminary report.

Mazur introduced the Eisenstein ideal in his influential 1978 paper to study congruences between cusp forms and Eisenstein series. Such congruences have play an important role in iwasawa theory, as in the proof of the main conjecture by Mazur and Wiles. I will speak about some recent results on the Eisenstein ideal in other settings, such as for Hilbert modular forms. (Received December 14, 2018)