

Compactifications of PEL-type Shimura varieties in ramified characteristics

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I will report on what we know about the compactifications of PEL-type Shimura varieties in ramified characteristics, allowing arbitrary levels, when they are simply defined by taking normalizations in certain auxiliary good reduction integral models. While we cannot expect them to be smooth, I will explain that they still enjoy many nice properties comparable to the good reduction cases. If time permits, I will also talk about a construction for the splitting models introduced by Pappas and Rapoport.

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