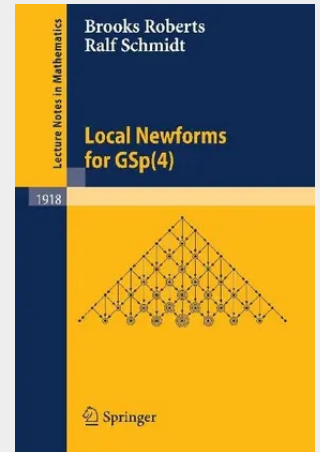


Local Newforms for $\mathrm{GSp}(4)$

Local Newforms for $\mathrm{GSp}(4)$ describes a theory of new- and oldforms for representations of $\mathrm{GSp}(4)$ over a non-archimedean local field. This theory considers vectors fixed by the paramodular groups, and singles out certain vectors that encode canonical information, such as L-factors and epsilon-factors, through their Hecke and Atkin-Lehner eigenvalues. While there are analogies to the $\mathrm{GL}(2)$ case, this theory is novel and unanticipated by the existing framework of conjectures. An appendix includes extensive tables about the results and the representation theory of $\mathrm{GSp}(4)$.

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