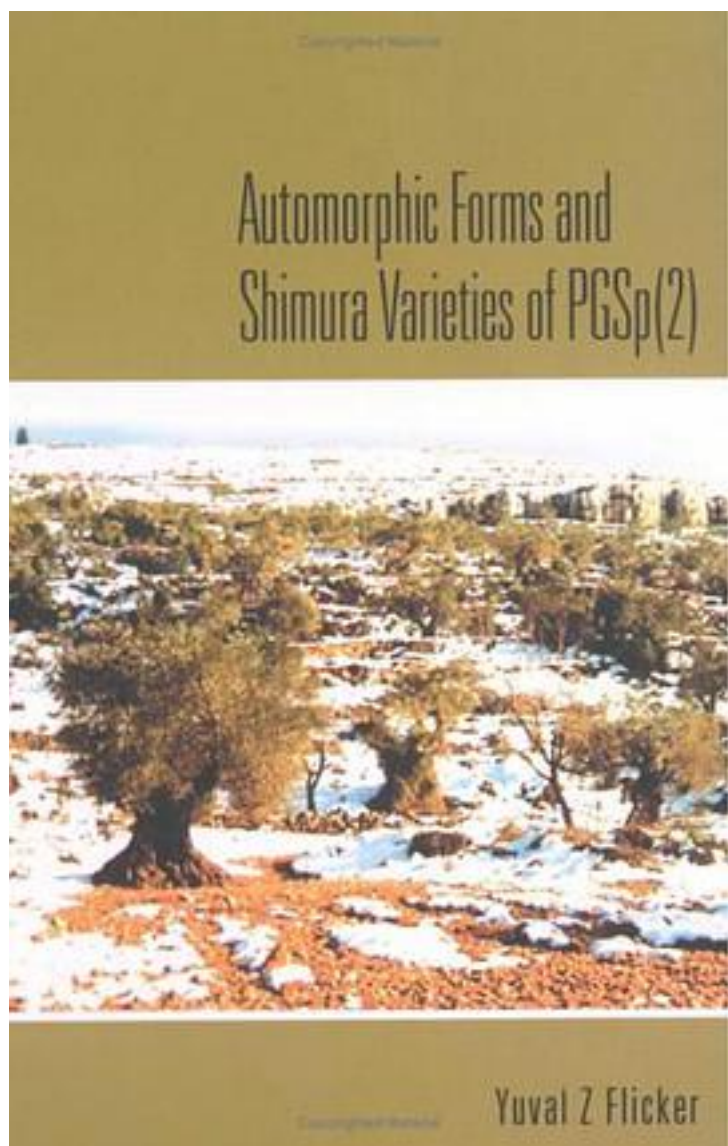


Automorphic Forms and Shimura Varieties of PGSp



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The area of automorphic representations is a natural continuation of studies in the 19th and 20th centuries on number theory and modular forms. A guiding principle is a reciprocity law relating infinite dimensional automorphic representations with finite dimensional Galois representations. Simple relations on the Galois side reflect deep relations on the automorphic side, called "liftings." This in-depth book concentrates on an initial example of the lifting, from a rank 2 symplectic group $\mathrm{PGSp}(2)$ to $\mathrm{PGL}(4)$, reflecting the natural embedding of $\mathrm{Sp}(2, \mathbb{C})$ in $\mathrm{SL}(4, \mathbb{C})$. It develops the technique of comparing twisted and stabilized trace formulae. It gives a detailed classification of the automorphic and admissible representation of the rank two symplectic $\mathrm{PGSp}(2)$ by means of a definition of packets and quasi-packets, using character relations and trace formulae identities. It also shows multiplicity one and rigidity theorems for the discrete spectrum. Applications include the study of the d

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