Residual Spectra of Split Classical Groups and their Inner Forms

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Abstract. This paper is concerned with the residual spectrum of the hermitian quaternionic classical groups $G'_n$ and $H'_n$ defined as algebraic groups for a quaternion algebra over an algebraic number field. Groups $G'_n$ and $H'_n$ are not quasi-split. They are inner forms of the split groups $SO_{4n}$ and $Sp_{4n}$. Hence, the parts of the residual spectrum of $G'_n$ and $H'_n$ obtained in this paper are compared to the corresponding parts for the split groups $SO_{4n}$ and $Sp_{4n}$.