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**GERALD CLIFF**, University of Alberta  
*Weil Representations of Local Unitary Groups*

Let  $E/F$  be a quadratic extension of the non-archimedean local field  $F$ , and let  $U$  be the unitary group corresponding to a Hermitian form on  $E^n$ . There are several cases to consider, depending on whether or not  $E/F$  is unramified and whether or not  $U$  is quasi-split. In any case  $U$  is a subgroup of a symplectic group  $\mathrm{Sp}(2n, F)$  and one can restrict the Weil representation of  $\mathrm{Sp}(2n, F)$  to  $U$ . I am interested in properties of this restriction, such as how many irreducible components there are, and also in the restriction to a unitary group over the ring of integers of  $F$ .