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**Título:** Topological Automorphic Forms

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**Sinopsis**

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The authors apply a theorem of J. Lurie to produce cohomology theories associated to certain Shimura varieties of type  $U(1,n-1)$ . These cohomology theories of topological automorphic forms ( $\mathit{TAF}$ ) are related to Shimura varieties in the same way that  $\mathit{TMF}$  is related to the moduli space of elliptic curves.

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