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Guillermo Mantilla-Soler* (g.mantilla691@uniandes.edu.co), Bogotá., Colombia. *A space of weight 1 modular forms attached to totally real cubic number fields.*

The main goal of this talk is to exhibit a canonical subspace of a space of weight 1 modular forms that is parametrized by the set of isomorphism classes of cubic fields of a fixed fundamental discriminant. In case that the fields have ramification at infinity, the construction is known and I will briefly recall it. Here, using the theory of integral traces, I will show how to construct such a subspace for cubic fields with no ramification at infinity i.e., totally real cubic fields. (Received January 29, 2015)