weakly-sofic groups

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We present the definition of weakly sofic groups (w-sofic groups) as a natural extension of the definition of sofic groups, where instead of the normalized Hamming metric on symmetric groups we use general bi-invariant metrics on finite groups. Every sofic group is w-sofic, but the converse implication is unknown. Also, we don't know any example of a non w-sofic group. We show that the existense of a non w-sofic group is equivalent to some conjecture about the closure of products of conjugacy classes in the profinite topology on free groups.

The introductory talk would introduce the basic concepts about profinite topology on groups.