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Modular Combinatorial Designs
In this talk we present a new concept what we call modular symmetric designs and use them to study modular Hadamard matrices. We prove that there exist 5 -modular Hadamard matrices of order n if and only if $n \not \equiv 3,7(\bmod 10)$ and $n \neq 6,11$. In particular, this solves the 5-modular version of the Hadamard conjecture.

