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Space-Time Hamiltonian Constellations From Group Codes

Space-time coding has been developed for use in multiple antenna wireless communications to achieve high rate and reliable data transmission. In this talk, we will present a new design of space-time Hamiltonian constellations from group codes. These group codes include cyclic groups, permutation codes variant II and finite reflection groups.

This is joint work with Ali Miri and Monica Nevins (University of Ottawa).