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Dusty E Grundmeier* (grundmer@umich.edu), Department of Mathematics, 2074 East Hall,
530 Church Street, Ann Arbor, MI 48109-1043. *Chebyshev Polynomials and CR*
Mappings. Preliminary report.

In the study of group-invariant CR maps between spheres, one is naturally led to a family of polynomial maps that are closely related to the Chebyshev polynomials. In this talk I will make this connection precise and explore what number-theoretic and combinatorial properties of Chebyshev polynomials extend to this broader context. (Received August 28, 2012)