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Karoly Bezdek* (bezdek@math.ucalgary.ca), University of Calgary, Department of Mathematics, Calgary, Alberta T2N 1N4, Canada. *Spherical Reuleaux Polytopes*. Preliminary report.

We call a spherical convex polytope of d -dimensional spherical space a *spherical Reuleaux polytope* if it is of constant spherical width of $\frac{\pi}{2}$. This seems to be a new class of spherical convex polytopes and the talk will discuss a selected list of its combinatorial and analytic properties. (Received August 09, 2008)