

Sampling and interpolation on the sphere

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Abstract.

In this talk, I will survey some of our previous work about Marcinkiewicz-Zygmund and interpolating arrays on the sphere. These concepts are related with “well distributed” arrays of points on the sphere.

I will talk about my recent work with B. Pridhnani where we obtain sufficient conditions for arrays of points on the sphere to be Marcinkiewicz-Zygmund and interpolating arrays for spaces of spherical harmonics. These conditions are in terms of the mesh norm and the separation radius.