Subject: equally spaced points on a hypersphere?
Posted by robert.dimeo on Fri, 29 Oct 2004 14:51:58 GMT
View Forum Message <> Reply to Message

Hi,

I would like to create (n+1) equidistant points on an n-dimensional sphere. The initial information provided is the center of the sphere, the radius, and *any* point on the sphere. From that you need to find the coordinates for the remaining n points. As a simple example, three equidistant points on a 2-dimensional sphere (a circle), can be located 120 degrees apart. Any hints on how to do this in general for n-dimensions?

Thanks in advance!

Rob

P.S. This is for an extension to the Nelder-Mead downhill simplex routine, AMOEBA.PRO.