Subject: Plotting streamlines in 3D Posted by mark.t.douglas on Tue, 25 Jan 2005 14:14:24 GMT View Forum Message <> Reply to Message

I can plot streamlines (well, magnetic field lines, but anyway) in 2D easily enough but getting them to plot in 3D is a task that is filling me with a terrible rage - I just can't get it working! plots() doesn't seem suited to the task and I really can't figure out how streamline() or particle_trace() or anything like that works. I tried googling for help but all I got were 404s because it seems the last time anyone tried plotting streamlines in 3d and getting stuck doing so was in 2001.

Anyone able to help? The field is analytic so I can get the field at any point easily enough (field(x,y,z) returns a three-element vector) and I can trace the field lines starting from any point too (trace(x,y,z,ds) returns a 3xN array consisting of the x,y and z coords of the nth point along it, with a stepsize ds) but plotting them in 3D is driving me mad!

TIA internet!