
Subject: plotting a vector field in 3d

Posted by [Petros Syntelis](#) on Fri, 21 Jun 2013 10:14:12 GMT

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Hi,

I am trying to plot a vector field in 3d and i have great difficulty in doing so.

I have 3 variable, b_x, b_y, b_z that have (n_x, n_y, n_z) dimensions which represent the vector field.

My questions are:

1) How can i plot this vector field. I have tried a variety of things (flow3 etc) i found online but all advices seems to lack some part of information and i fail to reproduce the results.

I also would like a hint on how i could overplot those lines above an xy image on the bottom of the plot.

2) Is there a way to trace the field lines and have, lets say 3 variables of dimensions $(n_{lines}, n_x), (n_{lines}, n_y), (n_{lines}, n_z)$?

3) Because i am pretty sure that no answer would be sufficient explanatory, as you can't explain everything in a group discussion, which book/references would you recommend me to read?

Thank you very much,
Petros
