

Subject: Re: apparatus diagram for E1111 (Helios, knight shift apparatus, 2T longitudinal field)
From: "Gerald D. Morris" <gmorris@triumf.ca>
Date: Wed, 10 Jun 2009 12:29:49 -0700
To: jbueno@triumf.ca
CC: jess@triumf.ca

Yes, that's looking nice. The gaps between things are not to scale, but I think you've got it right there, otherwise you lose clarity. I would make the hole in the silver mask twice as big. Centre the F counter on the cryostat as Jess says and slide the solenoid to the right WRT everything else so the surface where muons stop is in the centre of the magnet. Make the solenoid ~30% longer.

-- Gerald

Jess H. Brewer wrote:

Now you're talkin'! The only flaw I can see now is that the F counters are not centred on the beam axis (or else the cryostat isn't; but it looks like the lower F counter needs to come down a bit). -- Jess

James Bueno wrote:

Hi Jess and Gerald

Please find attached a new version of the figure, incorporating Jess' feedback.

Further comments and suggestions are welcome.

James

I would make the i.d. of the collimator about half what it is now, and draw TM1, TM2 and the silver mask as thin as you can without making them look like just lines. Right now it looks like TM2 is the same thickness as the sample!

Beamline/cryostat tubes and windows are optional, but you'll want to mention their existence in the text so that the reader knows that this is not all in a common vacuum and that there are those extra sources of multiple scattering....

Otherwise it looks pretty good. -- Jess

James Bueno wrote:

Hi Jess and Gerald

Thank you for sketching me a diagram of the E1111 ("TWIST μ^+ SR") apparatus.

Please find attached the diagram I propose to put into my thesis. Is the diagram accurate, and do you have any further recommendations to make it clearer?

Many thanks

James Bueno

