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Our two biggest challenges would appear to be getting the correct optics and finding a way to perform the test that satisfies the ATF radiation safety. I would suggest that before we start any major procurement or other planning exercises we run simulations based on the likely optics we can achieve. The plan for the simulations would be as follows:

James predicts the smallest beam size we are likely to achieve, taking the dispersion and emittance values used on 29/02/2008 as well as the values from the earlier runs, this should give us a spread of beam sizes dependant on the beam conditions. If at all possible to get a round beam it makes the ANSYS/AUTODYN simulations a lot easier.

Luis takes the beam sizes from James as well as the likely charges and runs Fluka to give us the energy deposition, assuming a target of 0.6rl Ti-6Al-4V.

George takes Luis data and runs simulations on ANSYS/AUTODYN. Speak to Chris Densham or Richard Brownsword on the capabilities of the VISAR and see if it is likely that we will see any results. I would imagine we would want atleast 1 order of magnitude better resolution on the VISAR than what we expect to see from the simulation results.

-- GeorgeEllwood - 22 Jan 2009

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