Purpose of the meeting

- ISIS interested FFA option for high energy/power upgrade
 - About 50 % of electricity usage of ISIS is pulsed magnets
 - About 50 % of electricity usage of ISIS is RF cavities
 - Potential \$\$ savings if we can reduce magnet wall-plug power
 - More versatile operation
 - No rep rate limit from magnet power supply

But

- Other options available synchrotron, linac/AR
- No clear understanding of real capital and operating cost
- Technically challenging
- Prototype FFA required
- Can we proceed with ISIS2 without checking FFA option?



- Motivation for prototype:
 - Answer technical questions about performance and cost of FFA option
 - Develop capabilities
 - Technical skills
 - Non-technical skills



- LhARA seeks to install FFA "booster" as phase 2 of project
 - Many parameters different to ISIS2 FFA prototype
- Either we cooperate, or STFC will force us to

Purpose of the meeting

- 'To what extent can we share project (design or hardware)?
 - Main magnet
 - RF
 - Diagnostics
 - Kickers/Septa/Bumpers
 - Codes/design tools
 - Ring design
 - Operation
- Can we increase the cross-talk by scope/specification changes?
 - Without ruining the projects
 - To what extent is it beneficial to change things
- Go through the project and look at scope/technical overlaps