Experiment Request Form

1. REQUESTER DETAILS

|  |  |
| --- | --- |
| Date: |  |
| Principal Investigator: |  |
| Institution: |  |
| Contact Information (phone/email): |  |
| Experiment Members: |  |
| Collaborating Institutions: |  |
| Funding Source (optional): |  |
| Approximate Experiment Duration  and/or Desired Dates: |  |

1. EXPERIMENT DESCRIPTION
2. **Scientific justification** (one paragraph)
3. **Experiment short description and goals** (max 1 page)
4. BEAM PARAMETERS

Please provide as many details as possible. Provide ranges if you have the necessity to vary some of the parameters during your experiment.

|  |  |
| --- | --- |
| Bunch charge / length: |  |
| Number of bunches / time structure: |  |
| Beam energy / energy spread: |  |
| Transverse Twiss parameters (β; α; ε) or beam size/shape: |  |
| Critical parameters and stability requirements (e.g. orbit, beam size, charge,…): |  |

1. EXPERIMENTAL APPARATUS

Give a detailed description of the experimental apparatus, including as appropriate:

1. Sketch of the planned layout with dimensions
2. Description of the DAQ system coming with the experiment and what additional DAQ will be needed from CLEAR
3. Elemental composition and masses of eventual items exposed to the beam or a secondary radiation field
4. Other electronics components (HV supplies, scopes, etc.)
5. Cooling or gas supply needs
6. Radioactive sources
7. Computing infrastructure needs
8. Support needed from CLEAR: triggers, technicians, DAQ systems, cooling, gas lines, etc.
9. Any other aspect of importance
10. EXPERIMENT LOGISTIC

Give details of the logistics for the experiment, including as appropriate:

1. Space requirements (include sketch)
2. Special requirements (cooling water, gasses, electricity, magnets, detectors, etc)
3. Estimated installation time
4. Duration of the experiment
5. Desired calendar dates
6. Estimation of activation of items or auxiliary equipment exposed to radiation, or expected total exposure (time and beam intensity)
7. Final destination of irradiated items (please be aware that irradiated equipment may be considered as radioactive after the experiment and will need to be handled according to CERN radiation protection regulations. Some details can be found on <http://clear.cern/content/logistics>)
8. Any other aspect of importance