**LhARA WP6 Meeting**

**Notes and Actions from meeting held on 1st November 2022**

**LhARA wiki location for documents related to this meeting:** [**here**](https://ccap.hep.ph.ic.ac.uk/trac/wiki/Research/DesignStudy/DesignAndIntegration)

**Present:** Neil Bliss, Ajit Kurup, Kenneth Long, Hywel Owen, Jaroslaw Pasternak, William Shields, Colin Whyte.

**Apologies:** None

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| **Action** | **Description** | **Status** |
| 22-10-27-01 | **Ajit Kurup** to send link to the parameter lists **CCAP-TN-11 Issue 1** | Complete |
| 22-10-27-02 | **Clive Hill** to send the LhARA CAD model in STEP format to Will Shields | Complete |
| 22-10-27-03 | **Neil Bliss** to send links to the schematic diagram and the proposed LhARA device naming convention. | Complete |
| 22-10-27-04 | **Ajit Kurup** to obtain permission for Neil Bliss to upload documents to the LhARA wiki through his links with Imperial College. | Complete |

**Presentation by:**

* Will Shields, document: [20221101\_WShields](https://ccap.hep.ph.ic.ac.uk/trac/wiki/Research/DesignStudy/DesignAndIntegration/Meetings/2022/2022-11-01#no1)
  + Simulation & Geometry Update
    - GPT Model Output
    - Model Updates
    - Geometry STEP File
    - BDSIM Survey

**Action: Will Shields** to provide Excel file with input from Jaroslaw. 1 -2 weeks timescale.

* Jaroslaw Pasternak, document: [WP6materials\_JPasternak01112022](https://ccap.hep.ph.ic.ac.uk/trac/wiki/Research/DesignStudy/DesignAndIntegration/Meetings/2022/2022-11-01#no1)
  + LhARA WP6 Meeting materials
    - Current baseline overview
    - Issues with current baseline
    - HT’s distribution parameters
    - Simulation of Baseline with HT’s distribution
    - Alternative design with quadrupoples, removing 3 Gabor lenses.

**Action: All** the flowing coordinate system and origin to be implemented for simulations and CAD model. Local coordinate systems and origins can be implemented at various part of the accelerator complex.

The origin of the coordinate system to be a physical location, which was agreed to be the centre of the target chamber exit flange. Z along the beam axis, Y vertical and X horizontal as the diagram below.

