

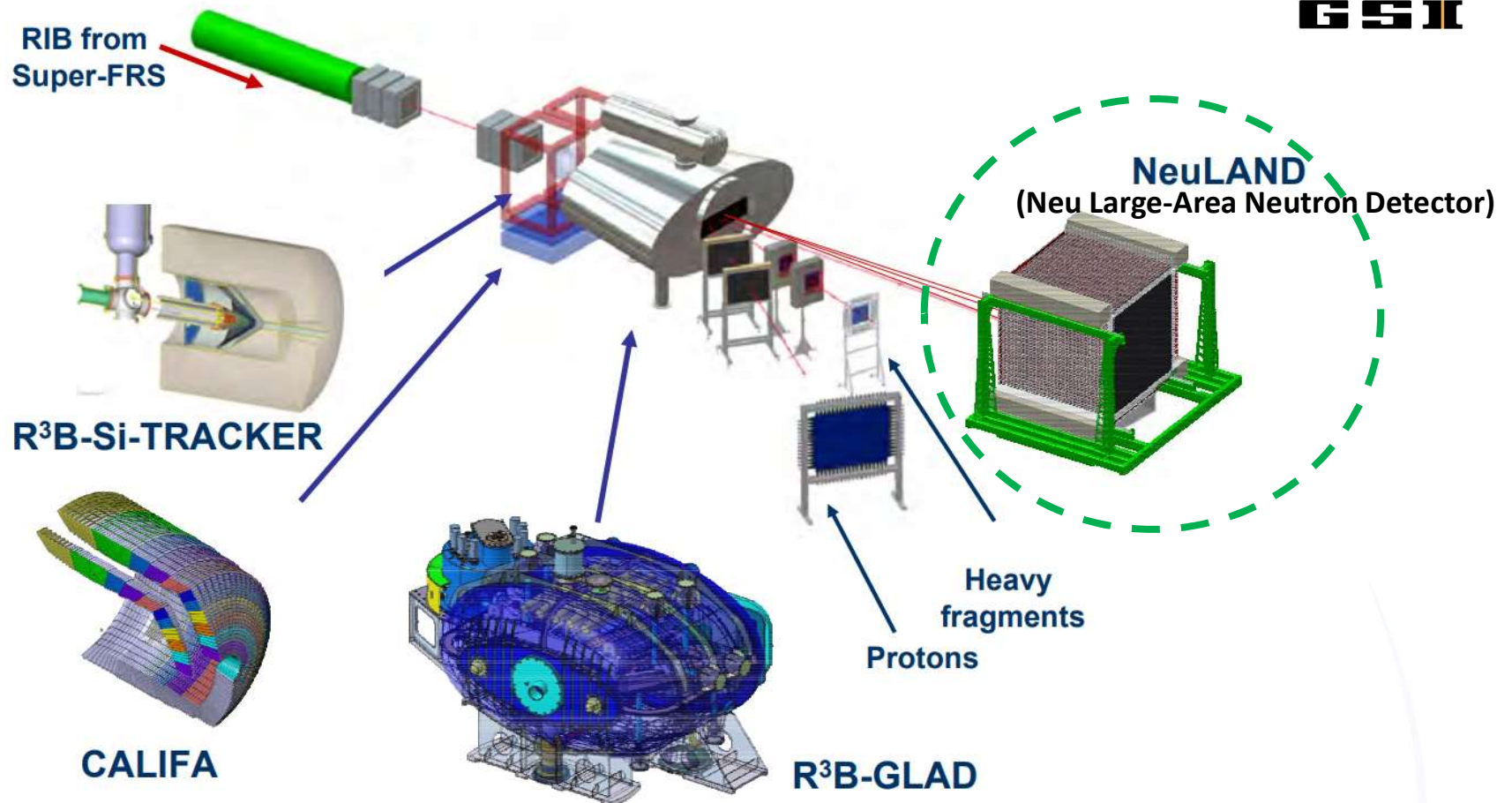
# Progress report in ESCAPE-RUG collaboration

**Maisam M. Dadkan**

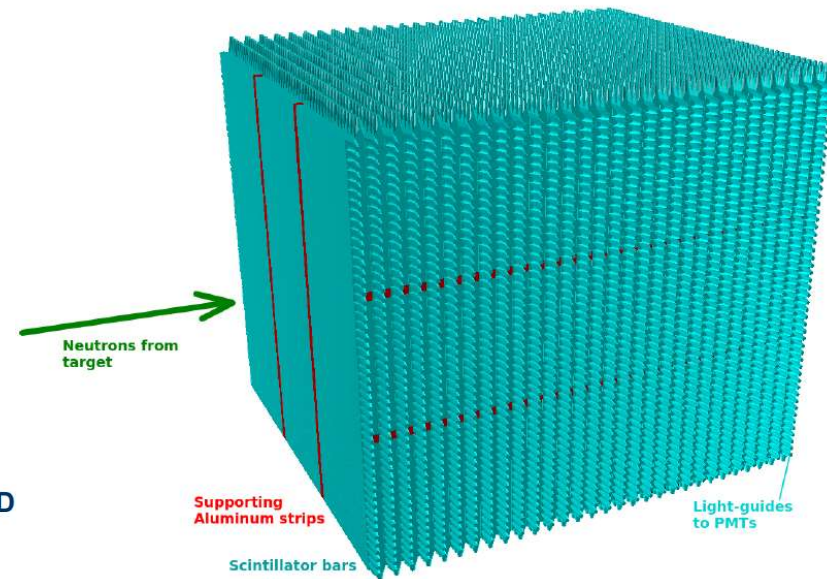
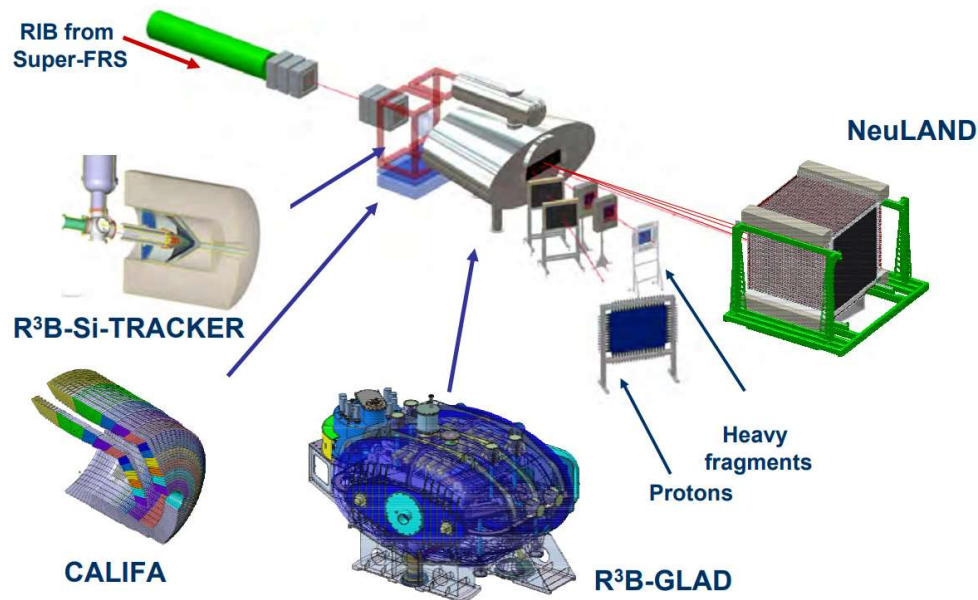
**WP5 Progress Meeting, 27 January 2021**

# R3B-NeuLAND

## R3B (Reactions with Relativistic Radioactive Beams)



# R3B-NeuLAND

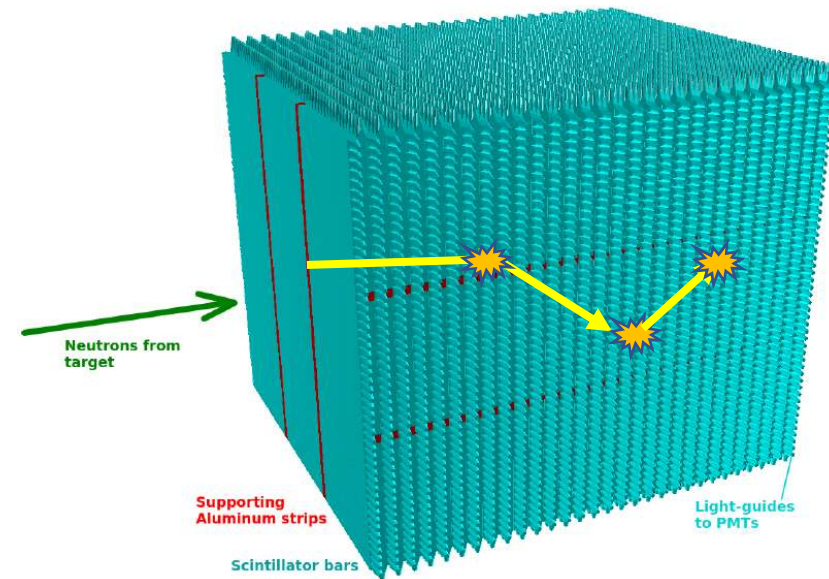


- 30 doubleplane (dp)
- 100 V-H scintillators/dp
- 2.5\*2.5 m<sup>2</sup>



# R3B-NeuLAND

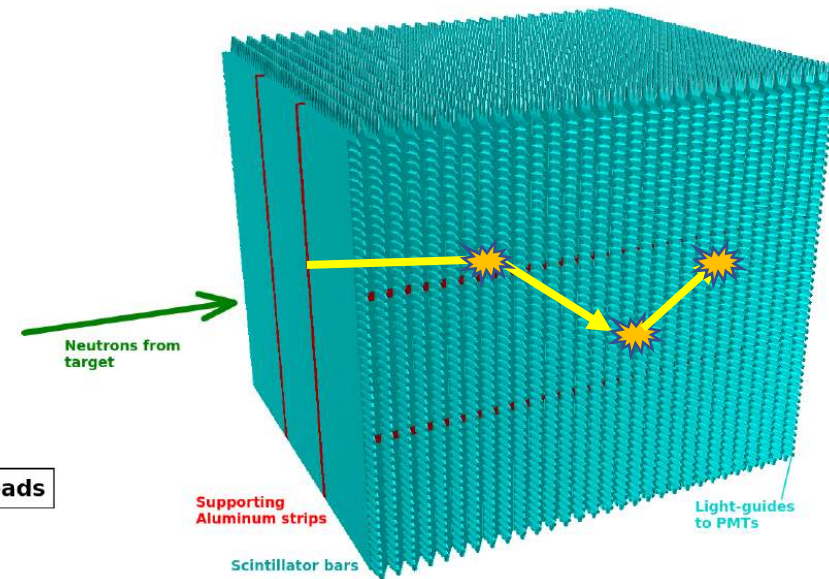
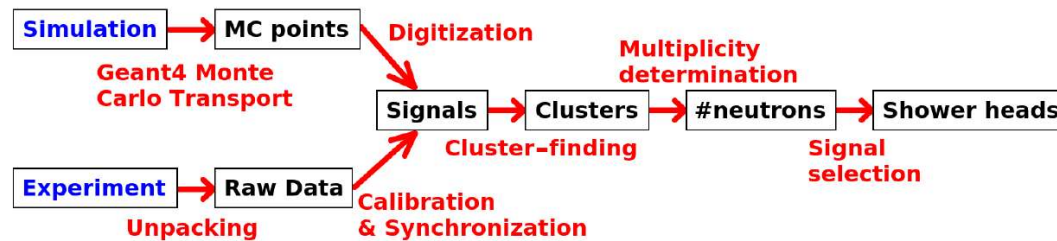
- Multiplicity determination
- Shower head determination





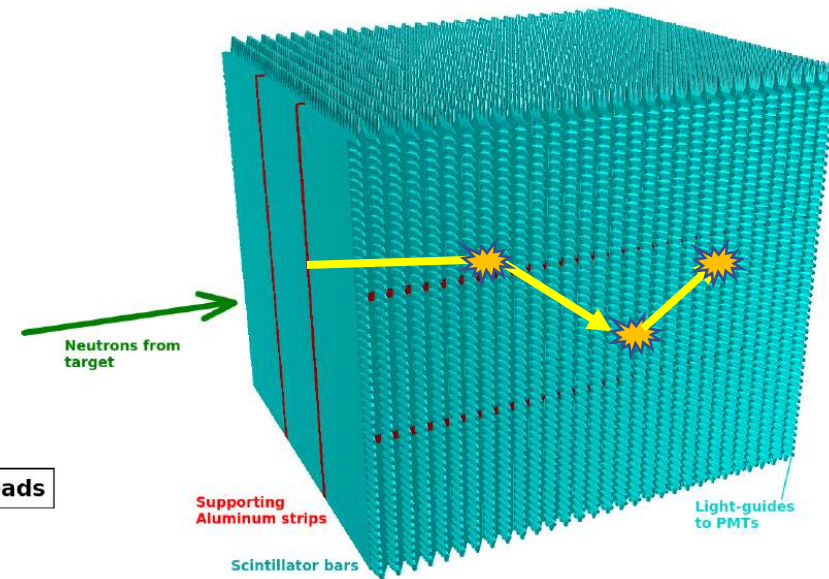
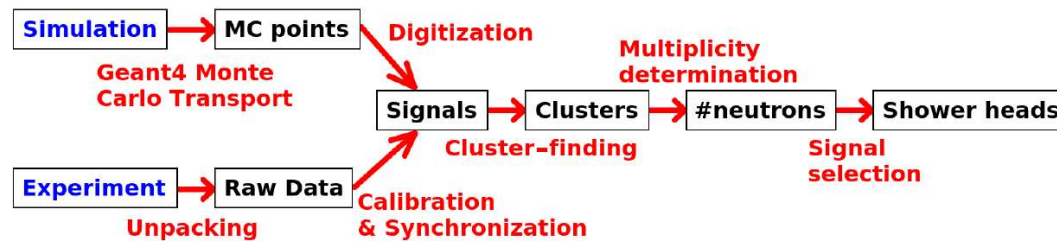
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- Multiplicity determination
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# R3B-NeuLAND

- Multiplicity determination
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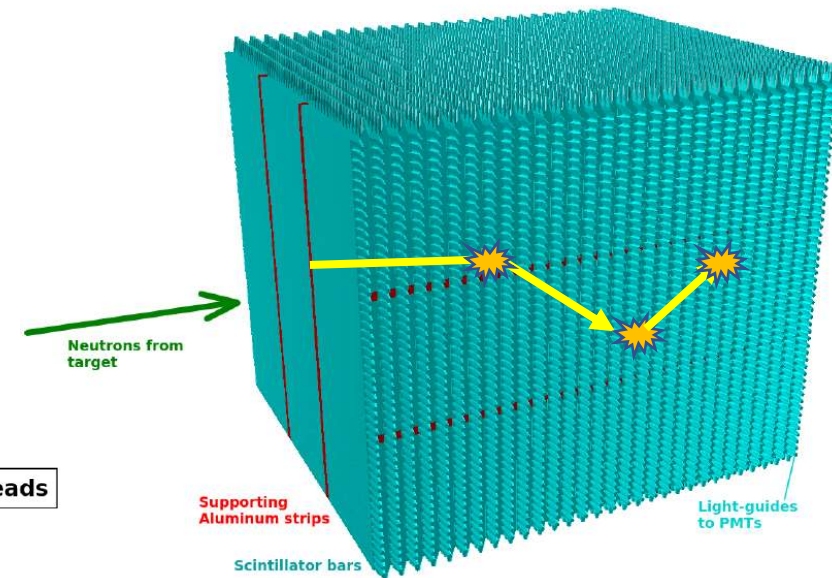
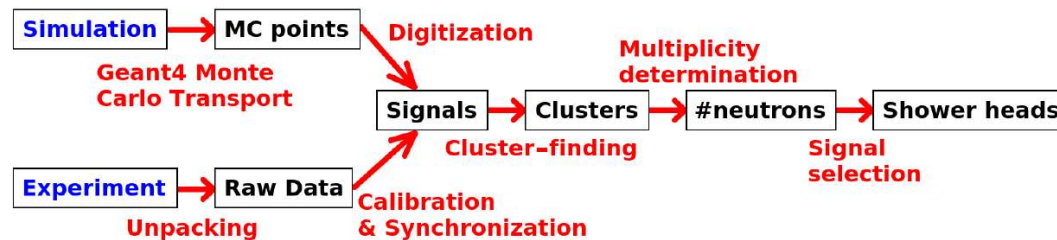
## Analysis methods:

- Technical Design Report (TDR)
- Deep Neural Network (DNN)



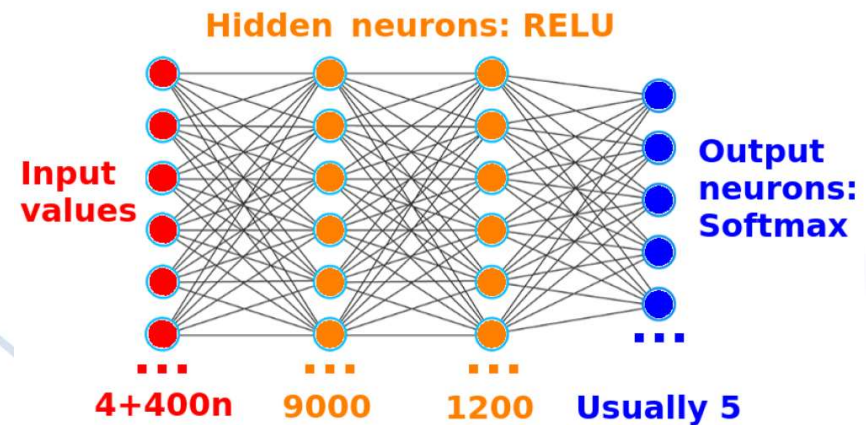
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- Multiplicity determination
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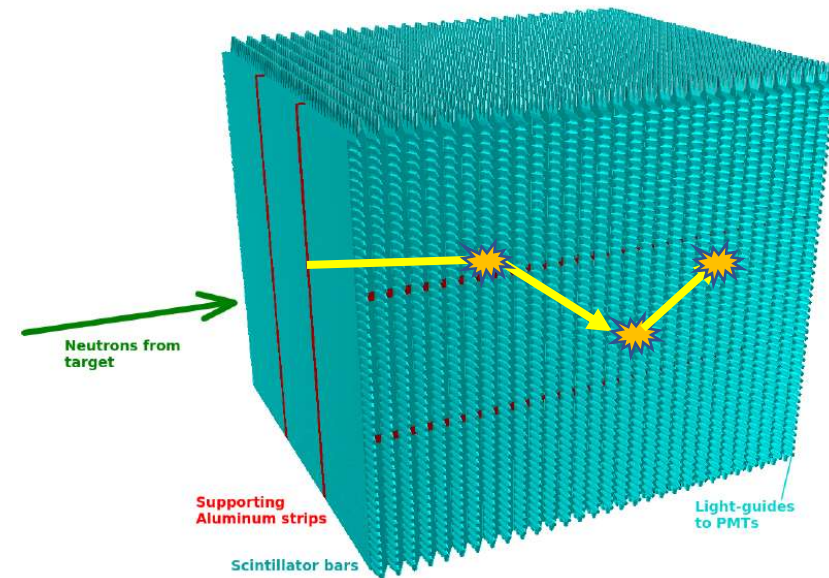
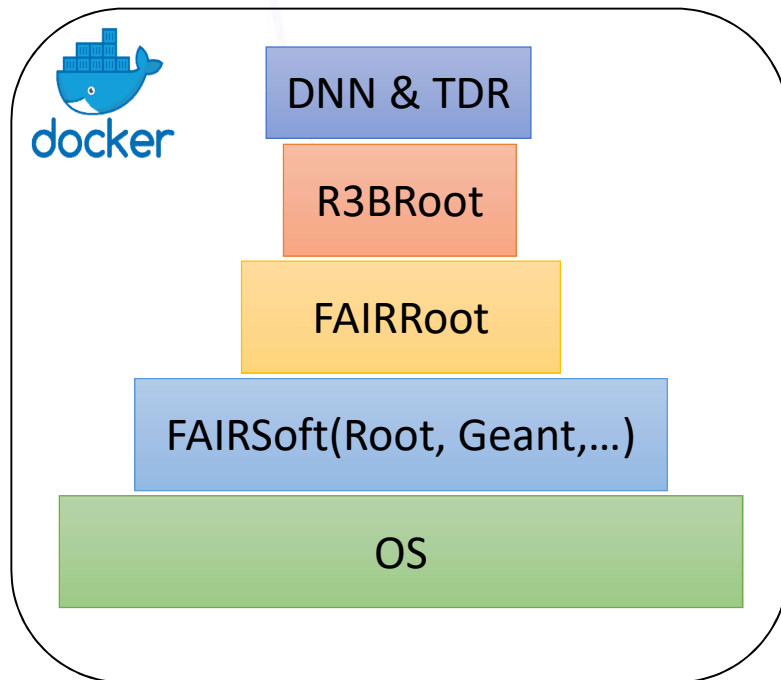
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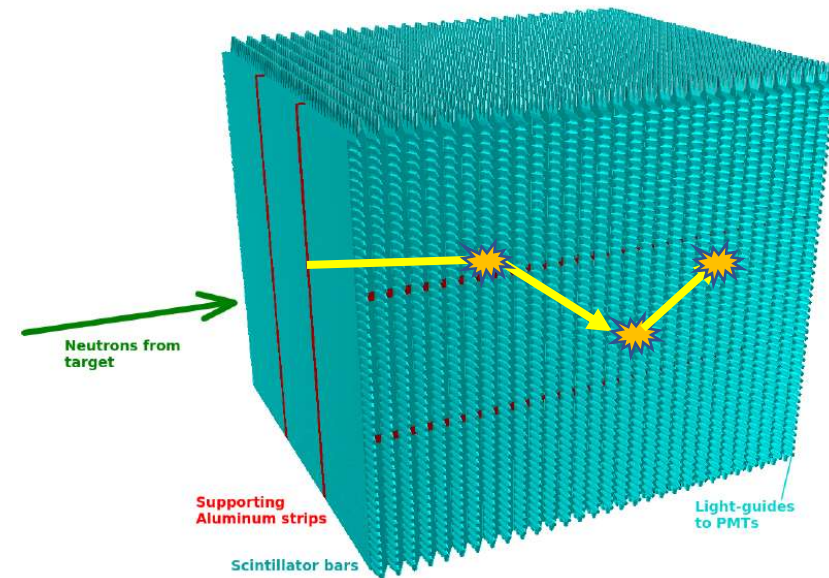
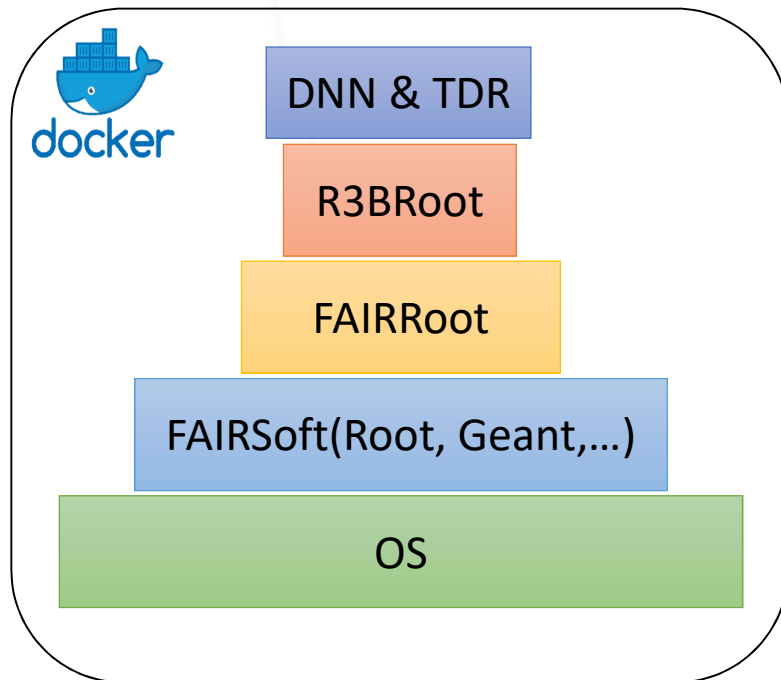


# R3B-NeuLAND





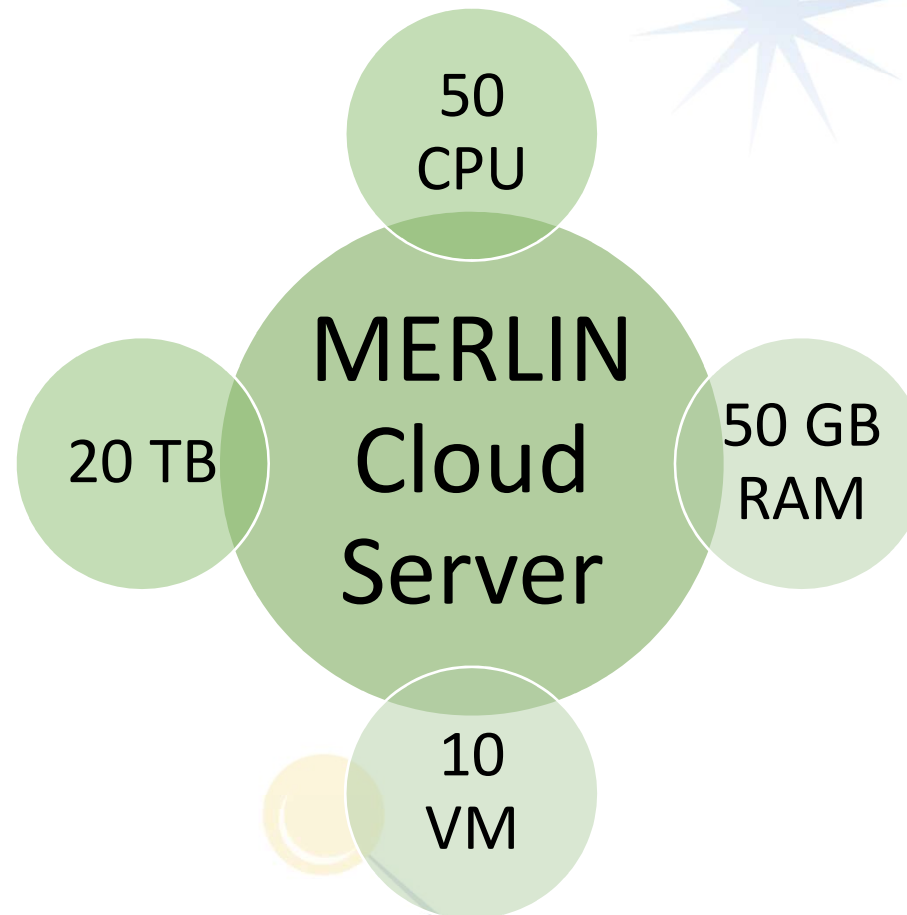
# R3B-NeuLAND



- Some Jupyter NBs have been provided (mostly in PyROOT)
- ~ 16 TB of data have been generated.
- Deploying a JupyterHub service at RUG is in progress.



## Our resources @ RUG-CIT



# Next steps

- Accomplish the in-progress tasks that are mentioned.
- Doing a data accessing test between RUG and GSI.
- Creating a multi-user Jupyterhub with data interfaces to both data lakes (the FAIR implementation and the CERN implementation) for both user groups R3B and CBM.
- Integrating our data analysis service into the ESAP.