

# LArSoft Coordination Meeting

*Release and project report*

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on behalf of  
the SciSoft team  
*Fermilab*

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## Today's agenda and speakers

- Release and project report (Erica)
- Problem in recob::Hit (Mike Wang)
- A possibility to simulate DUNE near detector in LArSoft (Tingjun Yang)
- AOB

# Releases

- Last few weeks
  - v09\_53\_00 released May 31
    - New features
      - [larsim#90](#): performance improvements introduced by SBN
  - v09\_53\_01 released June 8
    - New features
      - [lardataobj#26](#): Added StartTime and RiseTime to recob::OpHit data product
        - *Discussed at last LCM*
        - *Also addressed existing option in larana OpHit finder algorithm to save start time*
  - v09\_53\_02 released June 15
    - Bug fixes
      - [larwirecell#22](#): fix bug in SimDepoSetSource

# Releases

- This week
  - Update to TensorFlow v2.6.0
    - Updated larrecodnn also builds with cetmodules
  - Build larsoft with cetmodules
    - Completes Phase 1 of Spack migration

# Status of PRs

- Under discussion:
  - [lardataobj#27](#):
    - Change recob::Hit comparison operator use of StartTime and PeakTime
  - [larana#19](#): Modify OpHit finder algorithms to store StartTime and PeakTime
  - [larsim#95](#): Add ability to read HepEvt events from server
    - Discussed at previous LCM
    - Author currently addressing security issues
  - Reviewing changes to nusystematics for SBN to enable GENIE v3
    - [nusystematics#2](#), [systematicstools#1](#)
    - Currently sorting out implications for DUNE

# Status of PRs

- Approved and pending inclusion in release
  - Encountered problem building last week's release (v09\_54\_00) stemming from a recent Spack update.
    - A solution is being tested
  - v09\_54\_00 will be released with these PRs pending successful testing
    - [larsoft#21](#): build with cetmodules
    - [larrecodnn#28](#)
      - Update to TensorFlow v2.6.0
      - Build with cetmodules
    - Updating dependencies for Tensorflow 2.6.0
      - [larwirecell#23](#)
      - [larereco#44](#)
      - [larpandoracontent#43](#)
      - [larsoft#20](#)

# Spack migration update

- Phase 1 is completed with the release of v09\_54\_00
  - Please report issues to [scisoft-team@fnal.gov](mailto:scisoft-team@fnal.gov) or via [Redmine ticket](#)
  - [LArSoft page with instructions to migrate your code](#)
- Phase 2
  - Build entirely with Spack, CMake to create relocatable releases
    - Will require further changes to Spack and to structure of code dependencies
  - No time estimate yet since technical issues are still being investigated
  - Will provide further information, milestones at a future meeting

Do experiments intend to follow this for their code? (should be 'yes')

The end