

Short term release plan

- The current release of spdroot is **4.1.3**
- Next release **4.1.4** — before end of May:
 - Update of the detector geometry (sync with the TDR)
 - FairSoft → SpdSoft (based on FairSoft version apr21)
 - More tests
 - Automatic building of containers (?)
- Next release in June - July:
 - Review of the EDM (decouple MC and Reco objects, remove atavistic classes, a prototype of AOD)
 - Full reconstruction chain
 - MC transformations (= scripts for mass production)
 - Migrate GenFit and Kfparticle packages to SpdSoft
 - The first prototype of GeoModel (?)

Software distribution

- Pre-built version at */cvmfs/nica.jinr.ru/spd/*
 - *CentOS7 + gcc9.3*
- Docker and singularity containers
 - *CentOS7 + gcc9.3*
 - *Maybe we should move away from dockerhub.com*
- Software should be able to compile at Ubuntu18, Ubuntu20 and Debian11, but no support is provided. Please use docker containers if you encounter any problems.

Naming convention

(sync with the TDR)

- VD - Silicon Vertex Detector
- MCT - MicroMegas Central Tracker
- ST - Straw tracker
- ECAL - EM Calorimeter
- RS - Range system
- BBC - Beam-Beam counter
- ZDC - Zero-Degree Calorimeter
- TOF - Time of Flight System
- ACD - Aerogel Cherenkov Detector - ?

Open topics

- Database

- Install a ClickHouse server
- Create basic schema
- Test the performance

- Event assembly

- Time slice simulation
- Study the event and hit pile-up at various track multiplicities and time slice duration
- Test event assembly