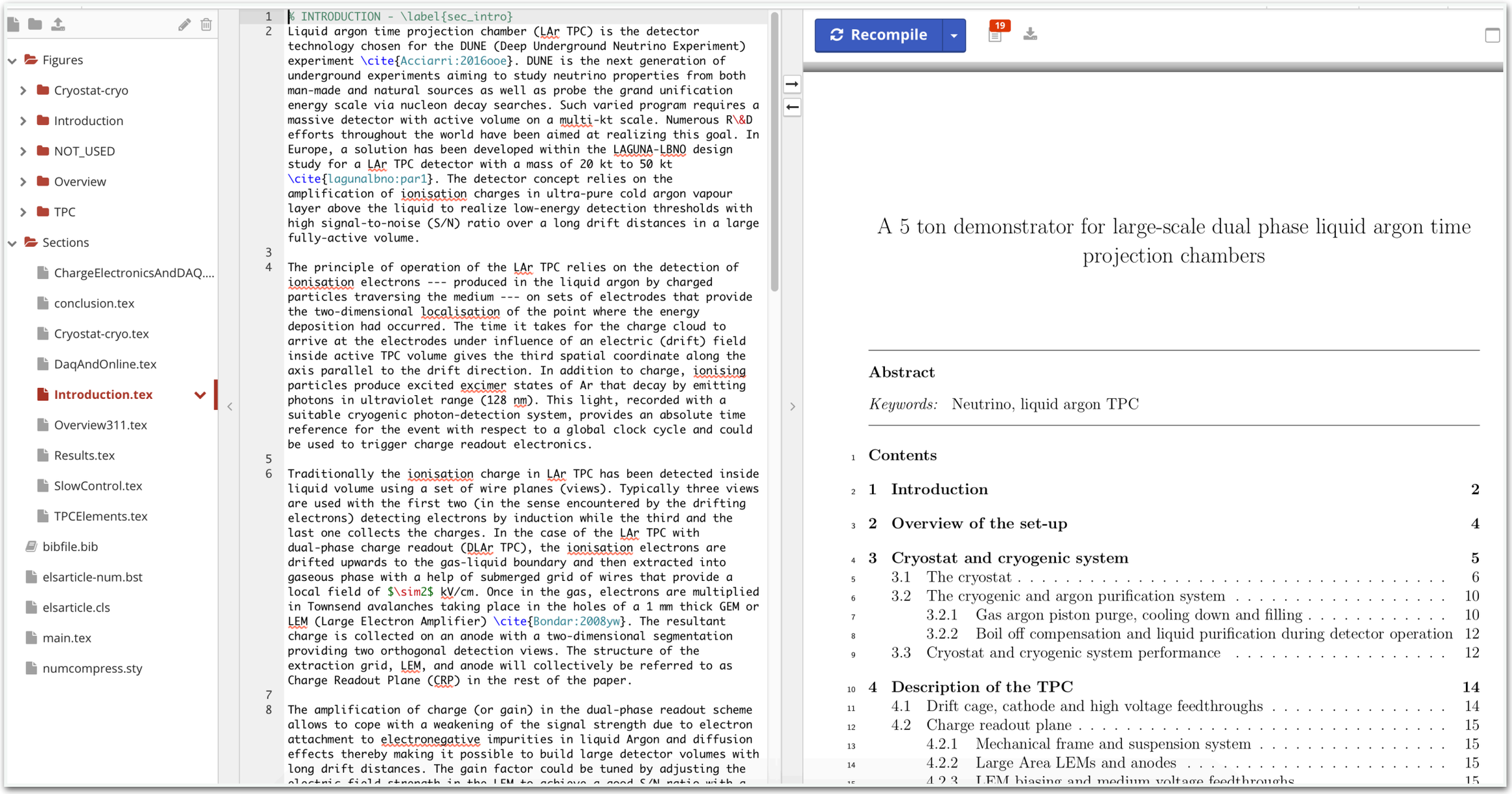
Paper

- Use Sharelatex, access by invitation (ask if you want to be invited)
- Figures in .eps .png .pdf organised in same sections as for text
- bibliography in bibtex



Current table of content

1. Introduction **(Federico)**

2. Overview of the setup **(Federico)**

3. Cryostat and cryogenic system: overview and performance (**Sebastien)**
->Cryostat
->Cryogenic and argon purification system
piston purge and gas recirculation
could down and filling
boil off compensation and purification during operation

4. TPC description **(Slavic & Eddy & Federico)**
->Drift cage (includes VHV FT)
->Charge Readout Plane **(Slavik & Eddy)**
Mechanical frame & suspension system Large Area LEMs & Anode LEM biasing (medium voltage FT)
->Photon detection system **(Federico)**
PMTs (coating, bases, single wire bias)
DAQ

5. Charge Readout scheme & data processing **(Slavic)**
->Cold analog FE and signal FT
- accessible cold FE cards (describe SGFT card insertion, operation, measured temperature @ FE, etc..)
-FE cards and ASIC characteristics (expected ENC, calibration, sensitivity)
-anode charge injection system
->Digital back end and data acquisition

6. Ancillary instrumentation & slow control **(Mario, Sebastien)**
->Cryogenic cameras
->temperature measurements
->level monitoring
->Slow control back end

7 Dector commissioning and first data **(Sebastien, Federico) (Laura M, Laura MB)**

->Stability of liquid level and charge readout plane adjustment
->HV and VHV system settings and stability
->Charge readout performance and response
-Electronic noise study
-Response to an injected pulse (3m vs 1 m strip, impedance, pulsing , signal shape etc..
->First data
electroluminescence & evidence for charge extraction
observation of first cosmic muons with gain

- First attempt at sections, will evolve as we write. Please comment and tell us if you want to add something or parts are missing.
- Describe the detector and show first performance in section 7 (nice track(s), light signal, HV-configuration,..)
- proposed list of main section responsible. Each section editor can decide how he/she wants to organise the writing and assignments for subsections. Expect participation from the entire collaboration. Next Friday will update this list with the names per sub-section
- Aim for first draft end of December (22nd) and submission at the end of January.