

| Tasks | Task Duration | | | | | | | |
|--|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|
| | Semester 1 (2023-2) | Semester 2 (2024-1) | Semester 3 (2024-2) | Semester 4 (2025-1) | Semester 5 (2025-2) | Semester 6 (2026-1) | Semester 7 (2026-2) | Semester 8 (2027-1) |
| Review of the literature. | | | | | | | | |
| Complete work on the 2022 luminosity measurement for a preliminary publication. | | | | | | | | |
| Readings on Standard Model of physics theory, LHC, and CMS experiments. | | | | | | | | |
| Master Linux computing and data analysis skills (Bash, Emacs, Root, HTCondor parallel processing.) | | | | | | | | |
| Course I on particle physics, mathematical methods II or numeric methods. | | | | | | | | |
| Complete work on the Run 2 luminosity measurement for a final publication. | | | | | | | | |
| Work on the 2023 dataset luminosity measurement. | | | | | | | | |
| Course II on on particle physics, mathematical methods II or numeric methods. | | | | | | | | |
| Work on the 2024 dataset luminosity measurement. | | | | | | | | |
| Writing of the monograph. | | | | | | | | |
| Studies on the TEPX luminometer for the HL-LHC | | | | | | | | |
| Presentation at national or international conferences of the TEPX upgrade studies. | | | | | | | | |
| Studies of the Run 3 data luminosity measurement for publication in a peer reviewed journal. | | | | | | | | |
| Presentations at national or international conferences of the luminosity measurements and TEPX luminometer for HL-LHC. | | | | | | | | |
| Writing of the Ph.D thesis. | | | | | | | | |
| Publication of the Run 3 data luminosity measurement in a peer reviewed journal. | | | | | | | | |
| Presentations at national or international conferences of the luminosity measurements and TEPX luminometer for HL-LHC. | | | | | | | | |
| Defense of the Ph.D thesis. | | | | | | | | |