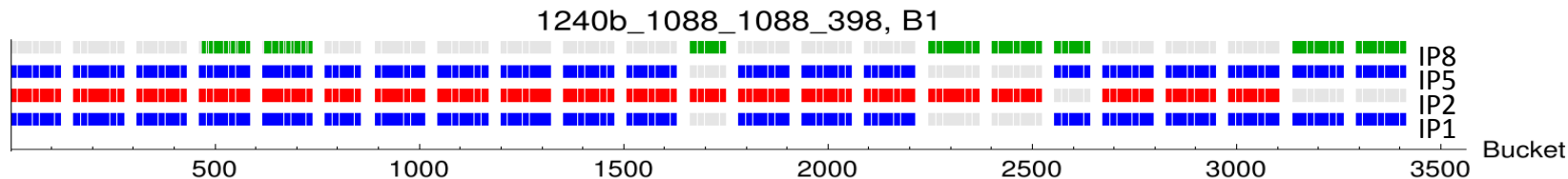


Heavy-ion operation in LHC Run 3 and HL-LHC

- Typically **one month per year of LHC heavy-ion operation** in Run 3 and Run 4
- **Reviewed and updated operational scenario for Pb-Pb and p-Pb**
 - New Pb filling schemes for more collisions at LHCb (recent request)
 - Optimized abort gap keeper allows injecting more bunches



- **New performance estimates** using two independent luminosity simulation codes
 - Collider Time Evolution (tracking code), and Multi-Bunch Simulation (differential equations)
- **Detailed benchmark shows excellent agreement with LHC data**
 - Integrated luminosity in Pb-Pb fills typically reproduced within a few percent

