

AD

Significant issues not covered by AFT:

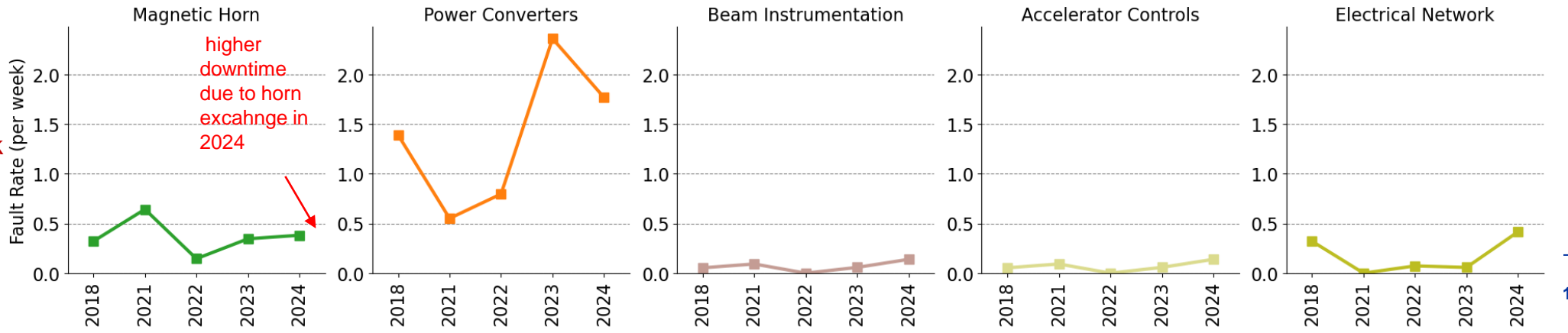
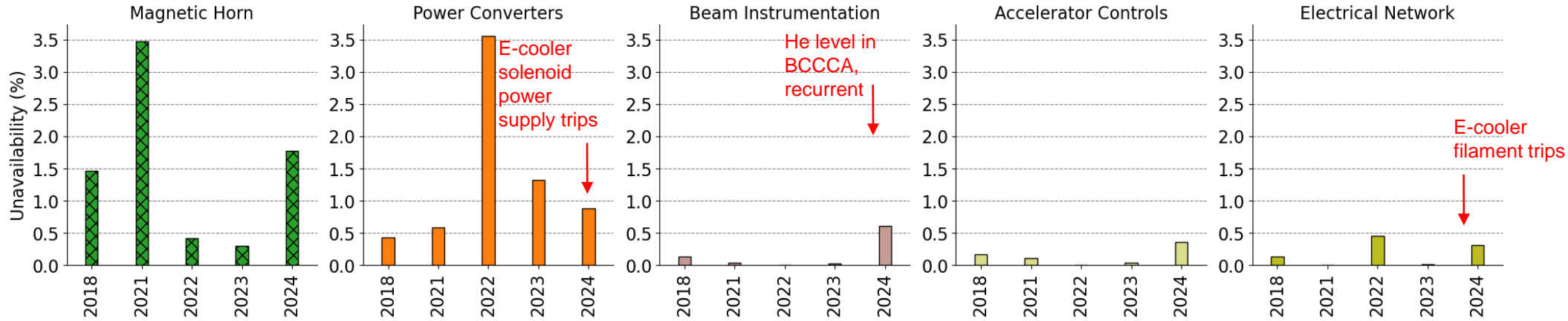
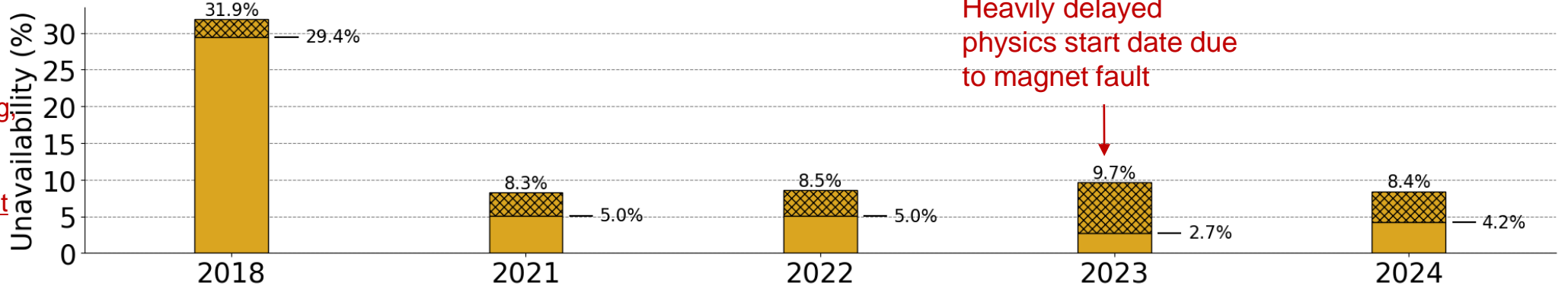
- Many systems in degraded mode: target, magnetic horn
- Non-blocking faults with stochastic cooling, instrumentation

Recurrent issues from last year:

- Spark in Magnetic horn,
- Cooling of the BCCCA (beam current monitor), 4h access needed to refill

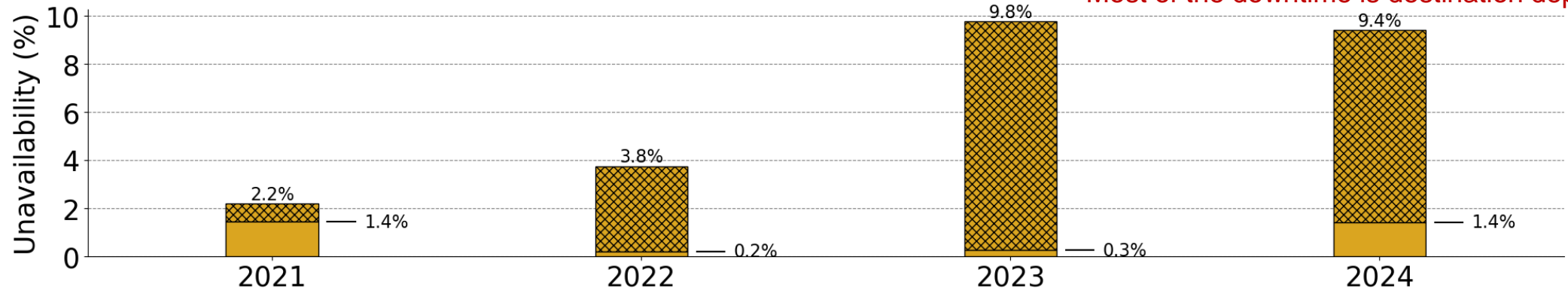
PC & Elec. Net.:

- Increasing number of trips of e-cooler solenoid PC
- Increased number of power cut inducing filament trips → long recovery time
- Still many trips of the main QUAD, but quick recovery compared to last year

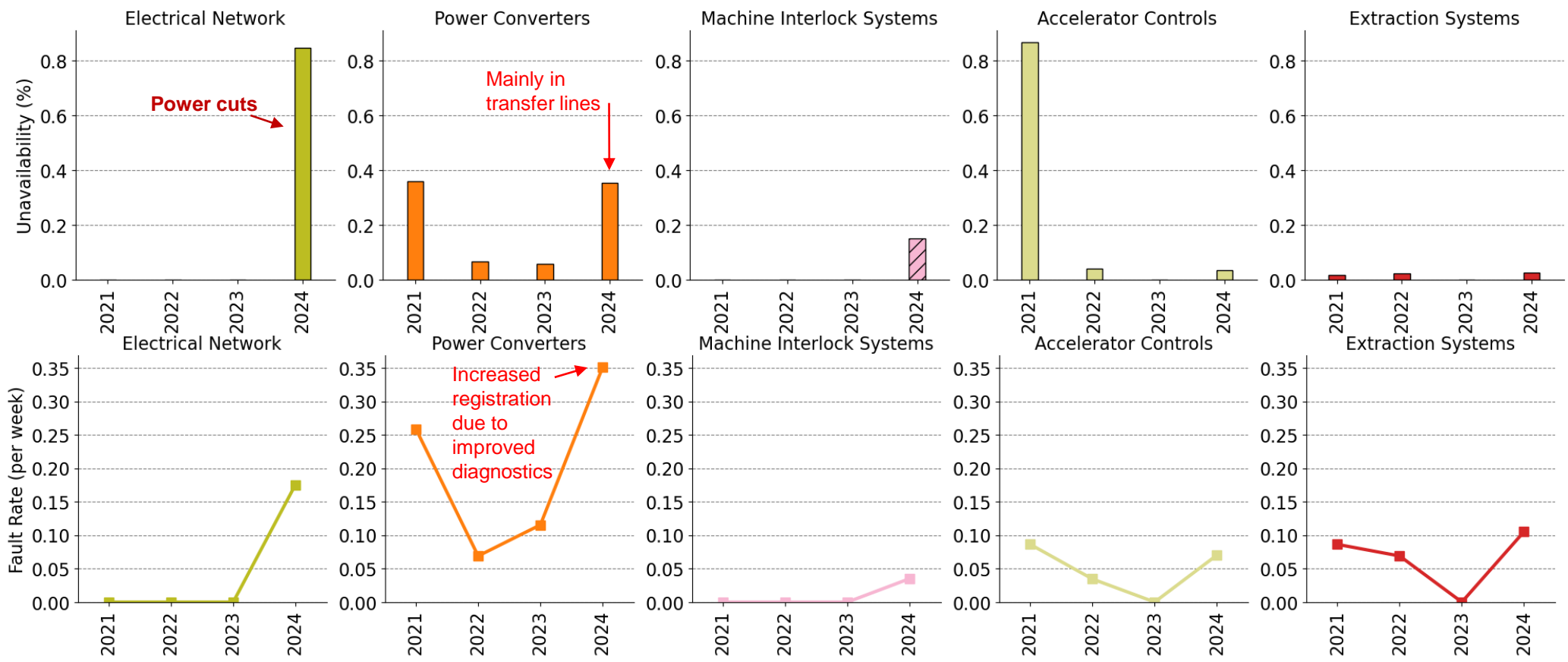


ELENA

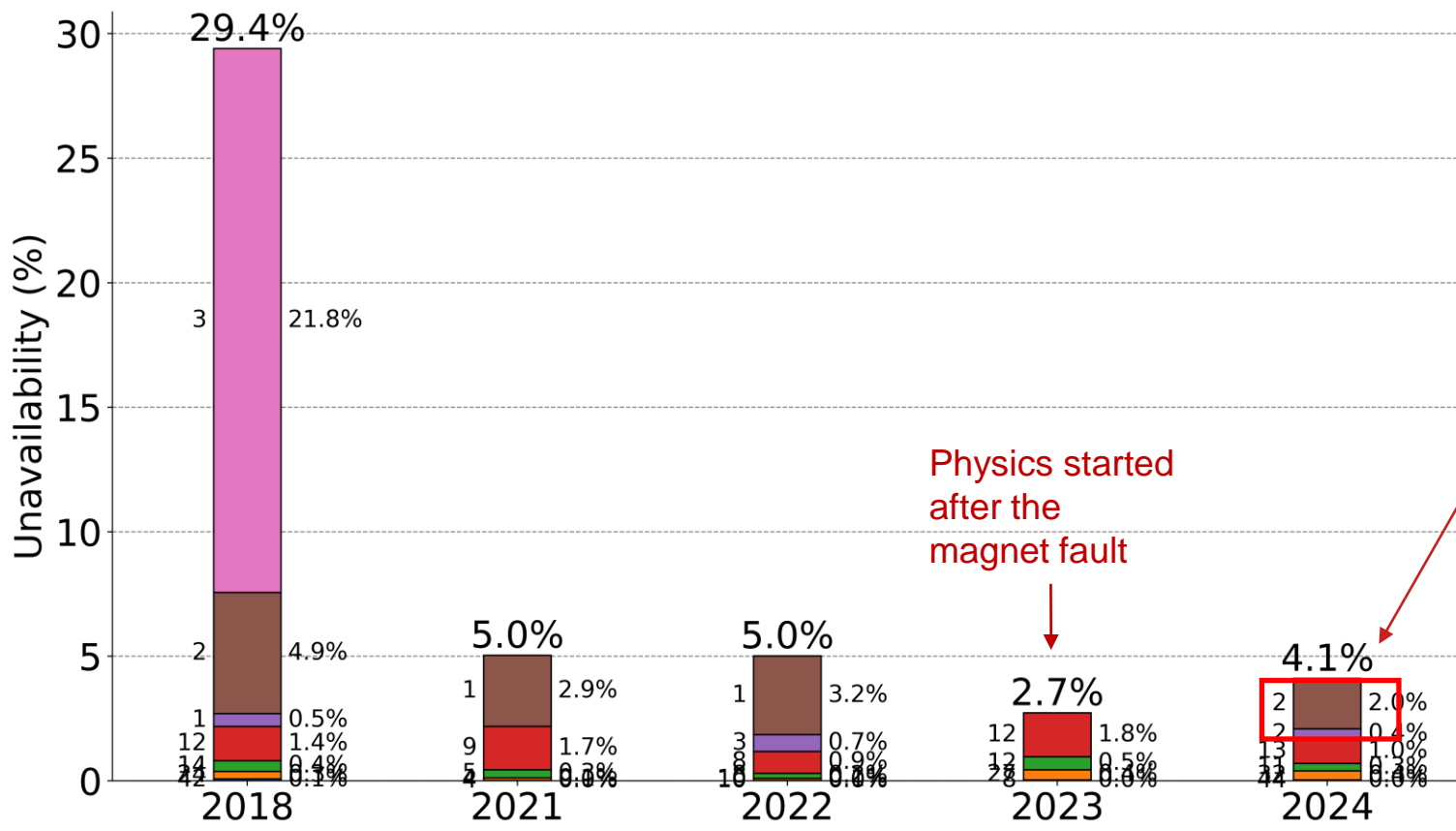
Injector Complex Accelerator



Most down time from upstream
Most of the downtime is destination dependant



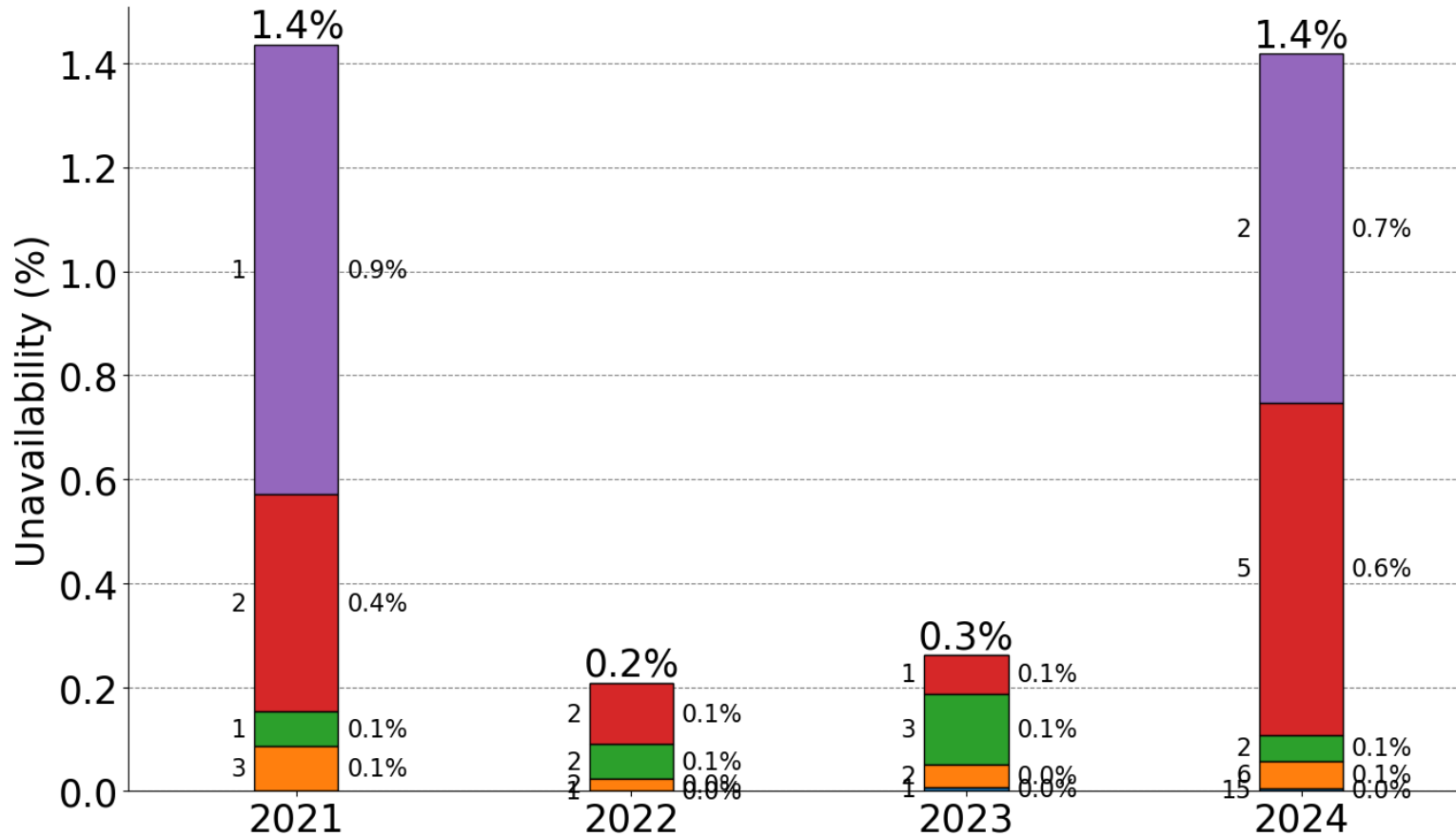
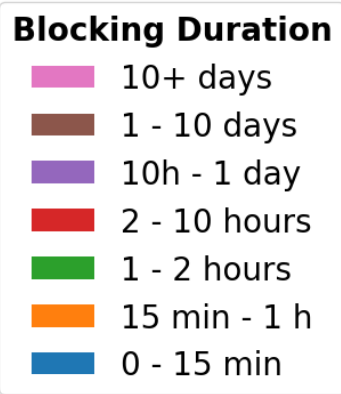
AD



- Target magnetic horn exchange
- Cumulated accesses to fix the beam current monitor
- Recovery of e-cooler solenoid trip
- Long diagnostics of timing issue

- **Faults 2-10 h dominated by recovery of e-cooler filament trips**
- **Many trips of AD main quadrupoles as previous years but much faster recovery thanks to the work done during the YETS2023-24**
- **Worrying increase of the number of trips of e-cooler main solenoid power supply with long recovery time**

ELENA



No piquet service for ELENA. Specialist repairs only in working hours.

E-cooler filament needs 8 hours to ramp up

AD/ELENA Conclusions

- **Availability lower than last year, but still quite high (AD 95.8 %, ELENA 98.6 %)**
 - Significant increase of the power cuts
 - Significant increase of solenoid power supply (aging of the equipment)
 - Same HW issues as last year but earlier in the run (magnetic horn and BCCCA)
- **Both machines availability affected by long recovery time (> 8h) in case of e-cooler filament trips**
- **AD:**
 - Improved recovery time after trips of the Main quad
- **ELENA:**
 - Improved diagnostics means OP can anticipate and track
 - Need downtime by destination to have a better tracking of the unavailability for users