

Deliverables: ARIES WP6 APEC - status of contractual obligations

D6.1 Ranking of performance degrading mechanisms for hadron storage rings and synchrotrons (APEC 6.2) - **M28 – upcoming** | **preparation through APEC2018 & subsequent community survey**

D6.2 Report on optimal RAMS characteristics for particle accelerators (APEC 6.3) – **M36**

D6.3 Summary of novel methods to reduce accelerator impedance (APEC 6.4) – **M36**

D6.4 Report on outstanding open questions and prioritized R&D guidelines for ERLs (6.5) – **M44**

D6.5 White list of ranked far-future accelerator options (6.6) – **M46**

Milestones:

MS26 Report on 1st Annual workshops of all APEC tasks (APEC 6.1) - M12 – **approved**

MS27 Report on 2nd Annual workshops of all tasks (APEC 6.1) – M24 – **submitted for approval**

MS28 Parameter database for various ERL & Linac facilities (APEC 6.4) – M24 – **submitted**

MS29 Report on 3rd Annual workshops of all tasks (APEC 6.1) – M36

MS30 Strategies for e-cloud mitigation in future accelerators (APEC 6.4) – M40

MS31 Identification & prioritization of mitigation approaches (APEC 6.2) – M40

MS32 Feasibility of an Open Data Infrastructure for accelerator reliability (APEC 6.3) – M44

ARIES WP6 APEC open issues

Budget:

a lot of demand –

many workshops, 3 or 4x more than anticipated -

so far for 2019: ARIES storage ring commissioning and beam test workshop at KIT Feb.'19, “RFQ meets reality”, Apr'19, joint ICFA/ARIES WS on “Mitigation of Coherent Beam Instabilities”, Sept.'19, FCC Week 2019, crystals and nanobeams,

also printing cost for EuCARD **legacy proceedings** (e.g. “tracking for collimation” WS)

collaborations -

e.g. with KEK (FCC, SuperKEKB, cERL,...), with US,

FNAL space charge collaboration with booster machine studies

(supporting 3 young persons, total of 19 days at FNAL)

assumed use of inherited “networking budget” presently in doubt

ARIES WP6 APEC solved issues

Recruitments:

Task 6.3: HIT recruited an early stage researcher, who started 1 February 2019, Kemal Pasic; other work was contracted to AIT

Task 6.4: INFN/Frascati/Rome was in the process of recruiting a postdoc, starts 1 May 2019, Danilo Quartullo

Task 6.6: INFN/Padua post-doc started on 1 May 2018, one year contract initially, Camilla Curatolo