

# Spokesman's report and Executive Board report

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# **EXECUTIVE BOARD REPORT**

# Executive Board Report

- **Three meetings since last Collaboration Board:**
  - [2018-10-13], 2018-11-09, 2018-12-07, 2019-01-11
- **EB activities:**
  - Completed decommissioning activities
  - Supported Physics 'n' S/w&C Coordinators in organisation of analysis
  - Set conference, publication and project priorities
  - Liaised with Speakers' Bureau and its chair VP

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# RESOURCES

# Staff effort

- STFC SPD (G.Blair, C.Jamieson) have made ~£25k available to support P.Franchini
  - Excellent!
  - 3 months support
- P.Franchini, S/w&C Coordinator:
  - Will leave ... hand-over to P.Kyberd
- General bleeding of expertise/experience:
  - All remaining post-docs (with the exception of C.Hunt) now formally 50% supported on other projects:
    - End of C.Hunt's contract is in sight
  - Biggest issue: ensuring critical publications are published in a timely fashion

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# **DELIVERING THE MICE LEGACY**

# Papers

Title	Contact	Target date		Comments Jan-19
		Preliminary	Final	
Phase-space density/emittance evolution; rapid communication	C. Rogers	Apr18 w/s	Apr19	4th referees meeting before around CM53 (21, 22Feb19, RAL)
Measurement of multiple Coulomb scattering of muons in lithium hydride	J. Nugent	Jun18; CM51	Apr19	Unfolding issues; perhaps resolved; CM53, 21,22Feb19, RAL
Performance of the MICE diagnostic systems	P. Franchini	Feb19; CM53		Almost complete draft
Phase-space density/emittance evolution review paper	C. Hunt	TBD		Analysis now advancing
Phase-space density/KDE/6D-emittance evolution	C. Brown	TBD		Thesis published on initial analysis; taken over by C.Brown
Measurement of multiple Coulomb scattering of muons in LH2	J. Nugent	TBD		Awaits completion of LiH paper
Field-on measurement of multiple Coulomb scattering	A. Young	TBD		Analysis underway
First particle-by-particle measurement of emittance in the Muon Ionization Cooling Experiment	V. Blackmore		Jun18, CM51	Accepted by EU Phys. J C; awaiting referees
The MICE Analysis and User Software framework	D. Rajaram	May18 w/s	Jun18, CM51	RAL-P-2018-007; 1812.02674; submitted to JINST; referees comments received

# Legacy...

- Agreed with STFC to work together to publicise the MICE legacy at the time of the submission/publication of first cooling results in Nature Physics
- Examples of impact to bring forward:
  - **Scientific:**
    - Papers, conference proceedings, theses, talks, ...
  - **Impact:**
    - **Direct:**
      - E.g. g-2 ring may use wedge absorber to improve beam
    - **Legacy:**
      - Muon Collider, nuSTORM, novel neutrino-beam discussions in ESPPU
    - **Impact:**
      - Investment in high-tech, UK, local, EU and other industry (quantifiable);
      - Outreach (e.g. national competition for schools organised on the back of Neutrino 2016)
      - Trained personnel: technical, engineering (cryo, mech., elec, electronic, s/w), analysis, accelerator scientist
- Topic for EB tomorrow; please be ready to become involved



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# **NEXT COLLABORATION MEETINGS**

# Future meetings

- **2019:**
  - **CM53:**
    - February 2019: 21st and 22nd February 2019
  - **CM54:**
    - June 2019: 27th and 28th June 2019
  - **CM55:**
    - October 2019: 24th and 25th October 2019
- **Analysis workshops:**
  - April 16<sup>th</sup> 17<sup>th</sup> in Glasgow
  - Subsequent meetings to be announced by C. Rogers
- **Video conferences:**
  - 11Apr19
  - 09May19