



**SPEcification, ANALYSIS & RE-CALIBRATION OF HIGH ENERGY PARTICLE DATA**

# **SPEARHEAD**

## **Workshop #1**

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**Dates:** 11-13 June, 2024 **Time:** 09:00-18:00

**Location:** Sikyon Coast Hotel, Peloponnese, Greece & Virtual (zoom)

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### **Meeting Objectives**

- A.** Present and discuss the goals and plans of the project as well as the first results.
- B.** Discuss on the action plan and details of implementation

### **Prework - please prepare with the following:**

- A.** Each WP leader, in collaboration with the partners of the WP, will prepare a presentation ~30min for the workshop. Each presentation will be followed by ~15min dedicated to discussion/planning/questions
- B.** Review the deliverables to be submitted, so that the contents can be finalized during workshop discussions
- C.** Discuss the Scientific Questions and the Technical Objectives
- D.** Present scientific results relevant to the project to initiate discussion & planning

Day 1: 11 June, 2024 Time: 09:15-18:00

Time	Topic / Discussion Item	Speaker
9:15-10:30 <b>75 min</b>	Consortium Board Meeting	
10:30 <b>30 min</b>	Welcome and General Overview of SPEARHEAD	A. Papaioannou <b>Coordinator</b>
11:00 <b>30 min</b>	Coffee Break	
11:30 <b>45 min</b>	Presentation on WP2	B. Heber <b>WP2 leader</b>
12:15 <b>45 min</b>	Presentation on WP3	I. Sandberg <b>WP3 leader</b>
13:00-14:30 <b>90 min</b>	Lunch - Break	
14:30 <b>45 min</b>	Presentation on WP4	A. Rouillard <b>WP4 leader</b>
15:15 <b>45 min</b>	Presentation on WP5	A. Papaioannou <b>WP5 leader</b>
16:00 <b>30 min</b>	Coffee Break	
16:30 <b>45 min</b>	Presentation on WP6	J. Gieseler <b>WP6 leader</b>
17:15 <b>45 min</b>	Presentation on WP7	M. Laurenza <b>WP7 leader</b>
18:00	Adjourn	

Day 2: 12 June, 2024 Time: 09:15-18:00

Time	Topic / Discussion Item	Speaker
09:15 <b>45 min</b>	Discussion/finalization on D4.1	All
10:00 <b>60 min</b>	Discussion/finalization on D1.2 & D6.1	All
11:00 <b>30 min</b>	Coffee Break	

11:30 <b>45 min</b>	ESA <i>Datalabs</i>	Vicente Navaro <b>ESAC</b>
12:15 <b>45 min</b>	Server set-up for SPEARHEAD <sup>+DEMONSTRATION</sup>	George Vasalos <b>NOA</b>
13:00-14:30 <b>90 min</b>	Lunch - Break	
14:30 <b>30 min</b>	Scientific talk (Setting the Scenery - Science Questions)	Alexis Rouillard <b>IRAP</b>
15:00 <b>20 min</b>	New results on on solar energetic electron events obtained from combined in-situ and remote-sensing observations from Solar Orbiter	Alexander Warmouth <sup>VIRTUAL</sup> <b>AIP</b>
15:20 <b>20 min</b>	Charge sign dependence of recurrent Forbush Decreases	Lisa Romaneehsen <sup>VIRTUAL</sup> <b>CAU</b>
15:40 <b>20 min</b>	Modeling Forbush Decreases	Mateja Dumbovic <b>OH</b>
16:00 <b>30 min</b>	Coffee Break	
16:30 <b>30 min</b>	Scientific talk (Setting the Scenery - Modeling) Transport	Du Toit Strauss <sup>VIRTUAL</sup> <b>NWU</b>
17:00 <b>20 min</b>	Energetic particle transport during GLE73	Eleni Lavasa <b>NOA/NKUA</b>
17:20 <b>20 min</b>	SEP acceleration in CME-driven shocks from the simulation perspective.	Alexandr Afanasiev <sup>VIRTUAL</sup> <b>UTU</b>
17:40 <b>20 min</b>	Investigating SEP events with extreme electron-to-proton ratios	Athanassios Kouloumvakos <sup>VIRTUAL</sup> <b>APL/JHU</b>
18:00	Adjourn	
20:00	<b>Social Dinner</b>	

**Day 3: 13 June, 2024 Time: 09:15-14:30**

Time	Topic / Discussion Item	Speaker
09:15 <b>20 min</b>	Application of the global NM network for study of strong SEP events	Alex Mishev <b>OUULU</b>
09:35 <b>25 min</b>	Preparing for the new space era: missions & challenges	Monica Laurenza <b>INFN</b>
10:00 <b>20 min</b>	ESA activities on cross-calibration of radiation monitors and future monitor flights	Piers Jiggens <sup>VIRTUAL</sup> <b>ESTEC</b>
10:20 <b>20 min</b>	Concurrent multi-species particle flux unfolding from SREM measurements	Sigiava Aminalragia-Giamini <b>SPARC</b>
10:40 <b>20 min</b>	GEANT4 model of EPHIN	Malte Hörlöck <b>CAU</b>
11:00 <b>30 min</b>	Coffee break	
11:30 <b>45 min</b>	Planning of the next deliverables, timeline (Discussion)	All
12:15 <b>45 min</b>	ESWW, next meetings, AoB (Discussion)	All
13:00-14:30 <b>90 min</b>	Lunch - Break	
<b>14:30</b>	Adjourn	