Universität Basel

Research Project

EMP / European Microkelvin Platform

Third-party funded project

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Organisation / **Research unit**
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Department
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The European Microkelvin Platform (EMP) provides access to the ultralow temperature frontier approaching absolute zero. The Platform is continuously evolving by extending its reach, building on the integration achieved through previous infrastructure calls. Europe already has a significant research lead in the microkelvin regime and we will reinforce this by encouraging the further exploitation, in both the shorter and longer term, of ultralow temperatures for the development of new concepts, new applications and new devices, especially in the fields of nanoscience, materials research and quantum technology in all its forms.

The EMP is a consortium of 17 partners which provide an extensive portfolio of capacities and expertise in ultralow temperature physics. Since this is a fast evolving and expanding frontier field, we also lay considerable weight on improving and upgrading our infrastructure, since the lowest accessible temperatures are continuously falling. These advances allow us, and our users from across Europe, to study new phenomena, thereby generating new knowledge, applications and commercial opportunities. We have a particular interest in the benefits of ultralow temperature physics for driving forward the interrelated areas of quantum materials, nanoscience, and quantum technology. The activities of the EMP hold enormous potential for innovation.

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Specify cooperation partners