

Commission Matters

EC&CC meeting, October 4-6, 2023

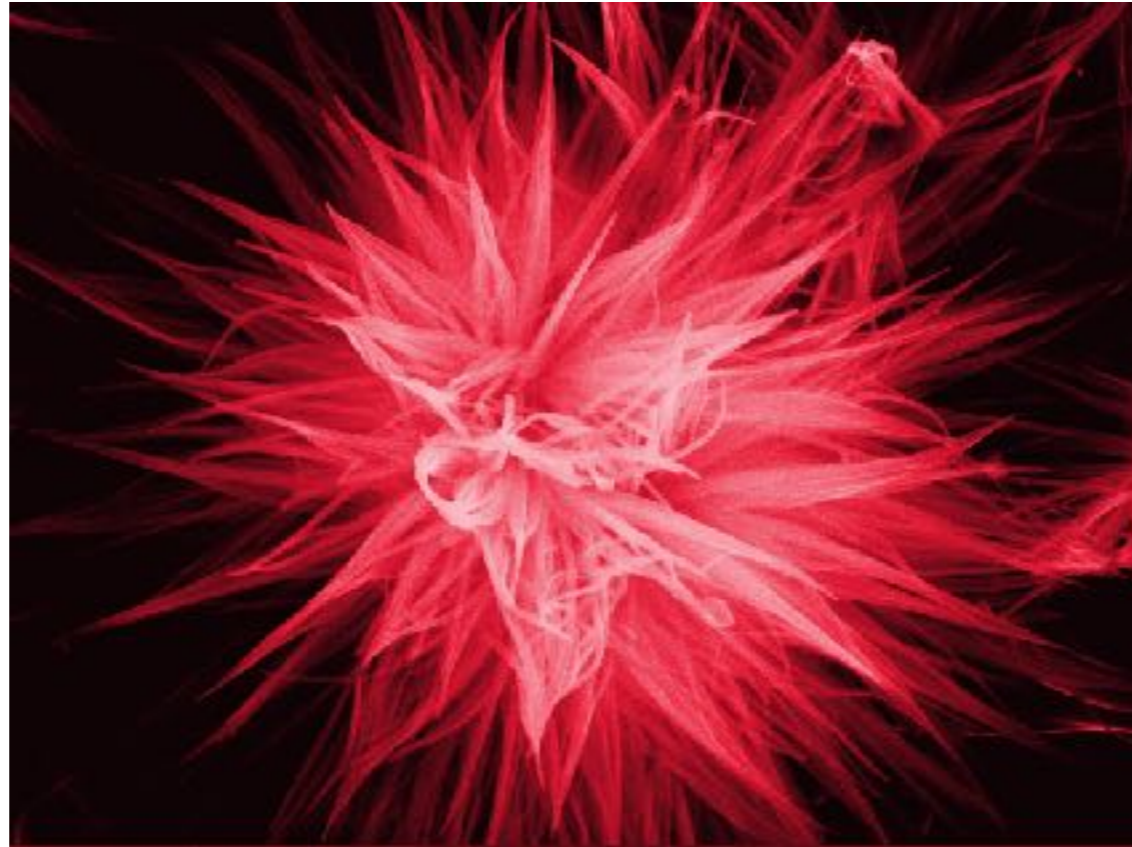


Photo by Guowen Sun

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President Designate, IUPAP



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There is overlap of themes among some of the existing commissions (it was reflected, e.g., in that the same person was in principle awarded two ECSP; the external evaluation talks about it too, there was a reflection in the report of C10 some years ago). This is very relevant now that we are confronted with 2 WGs that should be commissions or be dissolved (e.g. soft matter and QS&T; will discuss more about this when talking about WGs).

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Structural entity	Type	Role	Comment
Policy and finance	Commission C1	Operations and governance	Cross cutting
Symbols, units nomenclature, atomic masses and fundamental constants	Commission C2	Discipline management	Cross cutting
Statistical Physics	Commission C3	Research physics subdiscipline	Cluster with numerical and digital?
Astroparticle physics	Commission C4	Research physics subdiscipline	Cluster astronomy?
Low temperature Physics	Commission C5	Research physics subdiscipline	Cluster Solid state
Biological Physics	Commission C6	Research physics subdiscipline	Cluster bio
Semiconductors	Commission C8	Research physics subdiscipline	Cluster Solid state
Magnetism	Commission C9	Research physics subdiscipline	Cluster solid state
Structure and dynamics of condensed matter	Commission C10	Research physics subdiscipline	Cluster solid state
Particles and fields	Commission C11	Research physics subdiscipline	Cluster with accelerator
Nuclear physics	Commission C12	Research physics subdiscipline	Cluster all nuclear
Physics for development	Commission C13	Impact pathway	Cross cutting

From the report: How to split the sub-disciplines will be difficult and not straight forward. There are many different categorizations identified for physics. What the different sub-disciplines are, is not obvious and will need some subsequent work to progress this. In the meantime, there could be advantages in clustering the existing sub-disciplines and sub-sub-disciplines.

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Function:

- **Governance**
 - Policy and finance C1
 - Ethics Wg18
 - Centenary – special project WG17
- **Physics discipline needs**
 - Symbols C2 plus Newtonian Constant of gravitation WG13
- **Careers**
 - WiP WG5
 - Students AC5
 - Education [note this could be a research field like H&PP] C14
- **Impact**
 - Physics and industry WG16
 - Green economy
 - Physics for development C13

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This could be a way to “cluster” some of our current structures (related to transversal issues).

Disciplines and some possible initial clustering of existing disciplines:

- History and Philosophy of physics AC6
- Gravitational WG11 AC2 WG13
- Math and data C3 C18 C20
- Astronomy/Astro C19 C4
- Solid state/condensed matter C5 C8 C9 C10
- Fields and particles and accelerators C11 WG1 WG14
- Nuclear WG9 C12
- Optics, lasers and photonics C17 C15 AC1WG7
- Biophysics WG15 C6
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Then, also notice discussion on new resolution to increase # of commission members to accommodate input from CAMs.

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