Resolutions of the 34th General Assembly of the International Union of Pure and Applied Physics, October 31st, 2025

1) Resolution to ratify decisions made by Council since the 33rd IUPAP General Assembly

The 34th IUPAP General Assembly notes the decisions made by Council after the previous GA and approves them all (see details here). This implies approving:

a) the replacement of Ajith Kumar B.P. by Ambarish Kunwar from India as a regular member of C13, Physics for Development.
b) the change in the name of two positions in the Executive Council from Secretary General for Legal and Financial Affairs and Deputy Secretary for Legal and Financial Affairs to Secretary General and Deputy Secretary General, respectively. It approves, at the same time, the modifications in the Articles and Internal Regulations of the Union required to accommodate these changes.
c) the incorporation of SKAO, as IUPAP Corporate Associate Member with 1 unit
d) the acceptance of the resignation of Chao Tang (China-Beijing) as secretary (and member) of the Commission on Statistical Physics, C3; the incorporation of Limei Xu (China-Beijing) as regular member of C3 and the appointment of Erika Eiser (UK) as the new secretary of C3

It also takes note of other decisions made by Council that do not require the specific approval of the GA (see details here). They are:

e) the change of the name of the Prize and Medal awarded by the Commission on Astroparticle Physics, C4, to "IUPAP-TIFR-Locus.sh Homi Bhabha Medal and Prize"
f) signing the Nobel Laureate Assembly Declaration for the Prevention of Nuclear War of July, 2025
g) the decision to have the next in-person IUPAP GA in 2027 in South Africa together with an International Conference of Physics focused on Physics for a Regenerative Planet
h) the appointments of Associated Members to Commissions, Working Group members and Chairs, and the decisions on IUPAP representatives on other bodies.

2) Resolution on the restructuring of IUPAP

The 34th IUPAP General Assembly takes notice of the proposal submitted by the Rejuvenation Task Force and resolves to uphold its recommendations on restructuring as closely as possible. Specific resolutions are included in what follows to accommodate some of the proposed changes as needed.

3) Resolutions on changes in the Executive Council

3.1 Resolution to create the position of Vice-President at-large for Physics Outside Academia in the IUPAP Executive Council

The 34th IUPAP General Assembly resolves to create the position of Vice-President at-large for Physics Outside Academia in the Executive Council of the Union. This change will enter into effect immediately, with the position being occupied by the current chair of the Working Group on Physics and Industry (WG16), Christophe Rossel. To this end, the required changes in Articles 7.B, 7.E and 7.F of the Union indicated in the Annex are hereby approved.

3.2 Resolution to change the name of the position of Vice-President at-large for Ethics and Outreach to Vice-President at-large for Ethics and Collegiality

The 34th IUPAP General Assembly resolves to change the name of the position of Vice-President at-large for Ethics and Outreach to Vice-President at-large for Ethics and Collegiality. To this end, the required changes in Articles 7.B, 7.E and 7.F of the Union indicated in the Annex are hereby approved.

4) Resolutions on Commissions

4.1 Resolution to transform IUPAP Commission C1 on Policy and Finance into the IUPAP Committee for Policy and Finance and change its composition.

In view that:

- IUPAP Commission C1 on Policy and Finance has kept its name as a Commission for historical reasons but neither its composition nor its functioning are ruled by the Articles or Internal Regulations established for Commissions,
- the current aims of the Union require the direct involvement of the EC members in charge of Membership and Development and of Projects and Sponsorship in IUPAP's daily functioning,

the 34th IUPAP General Assembly resolves to:

1) rename Commission C1 as IUPAP Committee for Policy and Finance,
2) include the Vice-Presidents at-large for Membership and Development and for Projects and Sponsorship as regular members of the Committee.

Upon approval of this resolution, the members of IUPAP's Committee for Policy and Finance will be:

- IUPAP President (Committee's Chair),

- IUPAP Past President,
- IUPAP President Designate,
- IUPAP Secretary General,
- IUPAP Deputy Secretary General,
- IUPAP Secretary General for Administrative Affairs,
- IUPAP Deputy Secretary General for Administrative Affairs,
- IUPAP Associate General Secretary,
- IUPAP Treasurer,
- IUPAP Vice-President at-large for Membership and Development,
- IUPAP Vice-President at-large for Projects and Sponsorship.

4.2 Resolution to dissolve WG15 on Soft Matter to create the Commission on Soft Matter

In view of the agreement reached out by the Working Group on Soft Matter, WG15, and the Commissions on Statistical Physics, Biological Physics and Computational Physics, the 34th IUPAP General Assembly resolves to dissolve WG15 and create the IUPAP Commission on Soft Matter, C7. Momentarily, the 14 current members of WG15 will become the members of C7. After the approval of the present resolution, IUPAP members will be invited to submit proposals of possible new members of the Commission on Soft Matter. Based on these proposals, during 2026 the EC, in consultation with the current chair of WG15, will determine a partial modification of the Commission's composition to allow a more diversified membership in terms of territories as required by IUPAP's regulations. As part of this process, a Vice-Chair and a Secretary will be appointed. These decisions will be submitted for the approval of the 35th IUPAP GA to be held in 2026. Finally, the composition of the Commission will be renewed according to the regulations that rule the functioning of all Commissions at the IUPAP in-person GA that is going to be held in 2027.

5) Resolution to establish new types of internal structures: IUPAP Standing Committees under Commissions and Standing Committees under Vice-Presidents at-large

In view of the proposal for the rejuvenation of the Union, the 34th IUPAP General Assembly approves the establishment of a new type of internal structure, Standing Committee, in two different types: Standing Committees under Commissions and Standing Committees under Vice-Presidents at-large.

Standing Committees under Commissions have direct links with one or more IUPAP Commissions. The Chair of one such Commission should serve in an *ex-officio* capacity within the relevant structures of the Standing Committee and be kept informed of its decisions; the Chair may, at their discretion, designate a Commission member to act as the interface with the Standing Committee. Standing Committees under Vice-Presidents at-large are chaired by the corresponding Vice-President and should include in their mandate to give advice to the Executive Council in their area of

expertise. The functioning of these Standing Committees will be ruled by the modified Articles and Internal Regulations included in the Annex.

The necessary changes in the Articles 6 B (ii), 8 C, 8 D and 9 K of the Union as well as in the Preamble of the Internal Regulations, in the Internal Regulations I.2.3, I.2.4, I.3.4.A, VII.C (formerly VI.C) and the addition of the section “Title VI Standing Committees” in these Regulations as described in the Annex are hereby approved.

6) Resolutions on Working Groups and Standing Committees

6.1 Resolution to transform the Working Groups on Ethics (WG18) and on Physics and Industry (WG16) into Standing Committees Under Vice-Presidents at-large.

As recommended in the proposal for the rejuvenation of the Union, the 34th IUPAP General Assembly approves the transformation of the Working Groups on Ethics, WG18, and on Physics and Industry, WG16, into the Standing Committees under Vice-Presidents on Ethics and Collegiality and on Physics outside Academia, respectively, keeping their Mission/Mandate as they are. The corresponding Vice-Presidents are charged with bringing a proposal during 2026 for the consideration of the EC about the Mission/Mandate and composition of these SCs, which could remain the same as before the transformation or not. To advance with the latter, a consultation with IUPAP’s members is encouraged.

6.2 Resolution to transform the Membership Committee into a Standing Committee Under Vice-Presidents at-large.

The 34th IUPAP General Assembly approves the transformation of the recently created Membership Committee into the Standing Committee on Membership and Development under the corresponding Vice-President at-Large with its current composition and Terms of Reference.

6.3 Resolution to create the Standing Committee under Vice-Presidents at-large on DEI.

As recommended in the proposal for the rejuvenation of the Union, the 34th IUPAP General Assembly approves the creation of the Standing Committee Under Vice-Presidents at-large on Diversity, Equality and Inclusion (DEI). Chaired by the VP on DEI, the committee will have among its members the chairs of WG5 and representatives from the Ethics Committee and from the Commissions on Physics for Development, C13, and on Physics Education, C14.

The Standing Committee under Vice Presidents on DEI is created with the following mandate:

- to ensure that IUPAP is an entity that follows good DEI practice,

- to promote and share good practice amongst IUPAP members and participants of IUPAP organized or sponsored activities,
- to give advice to the IUPAP EC and other IUPAP structures on how to handle cases of bullying, discrimination, and sexual harassment that may arise in activities directly related to IUPAP,
- to continuously review DEI practices across the globe, assess what works and create and maintain a diversity action plan.

The IUPAP Working Group on Women in Physics, WG5, has an established identity and will retain its name. WG5 will be extended until the next in-person GA to be held in 2027, even though it won't be ruled by the regulations that apply to WGs, with the mandate of organizing the International Conference on Women in Physics in 2027. The VP on DEI will continue to be an *ex-officio* member on WG5 meetings. The VP on DEI is charged with bringing a proposal of additional SC members, of the way in which the SC will liaise with WG5 on Women in Physics and of the Terms of Reference by the next GA to be held in 2026. To this end, consulting with IUPAP members and structures, as well as with experts, is encouraged.

6.4 Resolution to transform various Working Groups into Standing Committees Under Commissions.

As recommended in the proposal for the rejuvenation of the Union, the 34th IUPAP General Assembly approves the transformation of IUPAP's Working Groups 1 (ICFA), WG7 (ICUIL), WG9 (ICNP) and WG11 (GWIC) into Standing Committees Under Commissions. In particular, the International Committee on Future Accelerators, ICFA, will work under the Commission on Particles and Fields, C11; the International Committee on Ultrahigh Intensity Lasers, ICUIL, will work under the Commissions on Laser Physics and Photonics, C17, on Plasma Physics, C16, and on Atomic, Molecular and Optical Physics (C15); the International Cooperation on Nuclear Physics, ICNP, will work under the Commission on Nuclear Physics, C12; and the Gravitational Waves International Committee, GWIC, will work under the Commissions on Astroparticle Physics, C4, and on Astrophysics, C19. GWIC will also keep a strong tie with the International Commission on General Relativity and Gravitation (IUPAP's Affiliated Commission 2).

Momentarily, these new SCs (former WGs) will keep their current structure, but they are charged with submitting current or updated versions of their Bylaws or Terms of Reference for the consideration of the Chair(s) of the Commission (s) under which they will function as IUPAP's Standing Committees. These Bylaws or Terms of References, which should abide by IUPAP's regulations for SCs, should be sent by the corresponding Commission Chairs alongside with a recommendation for the approval of the IUPAP Executive Council one month before the EC meeting to be held in October 2026.

6.5 Resolution to create the Standing Committee on Major Neutron Research Facilities

In view of:

- the proposal submitted by the USA Liaison Committee for the consideration of the 33rd IUPAP General Assembly to create a Working Group in the Field of Major Neutron Research Facilities,
- the resolution of the 33rd IUPAP General Assembly to postpone a decision in this regard in view of the rejuvenation process that the IUPAP was then about to start,
- the fact that the proposed WG fits within the characteristics of the recently approved category of Standing Committee under a Commission,
- that researchers in the field of condensed matter are frequent users of Neutron Research Facilities,

the 34th IUPAP General Assembly resolves to create the Standing Committee on Major Neutron Research Facilities with the aims of:

- bringing together key stakeholders for existing, new, and planned neutron sources to better coordinate plans;
- generating more science opportunities for the global science community
- advocating for and promote those opportunities.

For the time being, this Standing Committee will work under Commission C10, Structure and Dynamics of Condensed Matter.

6.6 Resolution to create the Working Group on Artificial Intelligence and Machine Learning.

In view of:

- the proposal submitted by the USA Liaison Committee for the consideration of the 33rd IUPAP General Assembly to create a Working Group on Artificial Intelligence and Machine Learning,
- the resolution of the 33rd IUPAP General Assembly to postpone a decision in this regard in view of the rejuvenation process that the IUPAP was then about to start,
- the fact that Artificial Intelligence (AI) and Machine Learning (ML) are a matter of study and development within several physics subfields,
- that Al and ML touch on multiple aspects of the scientific endeavor including, but not exhausting, scientific research and practice and science education with important ethical implications,

the 34th IUPAP General Assembly resolves to create a Working Group on Artificial Intelligence and Machine Learning with the following mandate:

- To analyze the multiple aspects that Al and ML involve and affect,
- To make a recommendation on the aspects that IUPAP should prioritize for its future actions related to the matter and the ways in which it should address the issue.

In issuing these recommendations, special care should be taken on how to move forward without disrupting the work on these subjects that is currently done in existing IUPAP Commissions. In this regard, it is important that the WG liaise with these Commissions to achieve a sensible and feasible recommendation.

6.7 Resolution to create the Working Group for new IUPAP Standing Committees

In view of:

- the new type of structure that has recently been approved to facilitate the work of IUPAP, Standing Committee under Commission,
- that the aim of these Standing Committees is to provide a venue for the discussion of key stakeholders involved with existing, new and planned research facilities or infrastructure of a given type to better coordinate plans and inform the scientific community of the opportunities they offer,
- that the exiting Standing Committees do not cover all the types facilities of interest for the physics community,

the 34th IUPAP General Assembly resolves to create the Working Group for new IUAP Standing Committees under Commissions with the following mandate:

- to identify facilities and infrastructures of interest for the physics community not currently covered by IUPAP's existing Standing Committees under Commissions (e.g., fusion);
- to liaise with the relevant stakeholders and analyze the feasibility of creating Standing Committees under Commissions to include some of those facilities;
- to submit the proposal for the creation of new Standing Committees under Commissions in the areas they consider would be relevant for the physics community including in the proposal a draft for the composition of SC.

6.8 Resolution about Working Group WG13, Newtonian Constant of Gravitation.

In view of the proposal presented by WG13 on the Newtonian Constant of Gravitation, the 34th IUPAP General Assembly resolves to:

1. Extend the existence of WG13 through the next IUPAP in-person GA to be held in 2027;
2. Appoint Christian Rothleitner from PTB as the Chair of WG13 instead of Stephan Schlamminger from NIST;
3. Charge WG13 with
   - 3.1 fininishing the planned living review article on the measurements of G by the end of 2025;
   - 3.2 holding an IUPAP WG13 meeting in 2026;
   - 3.3 updating the WG13 website to be used as a resource for the groups conducting research on measuring G.

6.9 Resolution about Working Group WG14, on Particle Accelerators for Science and Technology

As adviced in the proposal for the rejuvenation of the Union, the 34th IUPAP General Assembly extends the existence of Working Group 14 on Particle Accelerators for Science and Technology as it currently is through the 35th IUPAP GA to be held in

2026. In the meantime, it is recommended that the actions and mandate of WG14 be revised and a decision be made on whether it should continue as WG, be transformed into a Standing Committee under a Commission or be dissolved.

6.10 Resolution about Working Groups WG20, on Open Science, and WG21, on Physics for Climate Change Action and Sustainability

As recommended in the proposal for the rejuvenation of the Union, the 34th IUPAP General Assembly extends the existence of the Working Groups on Open Science (WG20) and on Physics for Climate Change Action and Sustainability (WG21) as they currently are through the the next in-person IUPAP GA to be held in October, 2027.

7) Resolution to revise Resolution 1, approved by the 33rd IUPAP General Assembly in October 2024

Resolution 1 on IUPAP elections and procedure for handover of responsibilities for EC&CC approved by the 33rd IUPAP GA is slightly contradictory with IUPAP's current Articles and Internal Regulations which rule the election of EC members. In order to solve this contradiction, the 34th IUPAP General Assembly approves the replacement of Resolution 1 of the 33rd IUPAP GA by:

Candidates to be elected as Commission Chairs are identified at latest 18 months before they are expected to take office. The candidates are proposed for election at the first possible General Assembly and successful candidates will then be elected as candidates designate.

All candidates designate will be invited to the following in-person EC&CC meeting and the General Assembly to ensure the continuity of the activities. The formal handover of responsibilities will normally take place on 1st January following the in-person General Assembly.

8) Resolution 8 to incorporate new IUPAP Corporate Associate Member

The 34th IUPAP General Assembly approves the incorporation of Innovation Investment Management India Private Ltd (IIM) as a new IUPAP Corporate Associate Member with one unit and mandates IUPAP President to sign the corresponding MOU.