J-FUTURE workshop Summary

- Many thanks to presenters, discussions panelists (and all attendees)!
- We investigated opportunities in three main directions + necessary infrastructures
 - 1) Nucleon/nuclei structure via DIS, SIDIS, EXCLUSIVE reactions
 - 2) Hadron spectrum via (semi-)exclusive (exotic) MESON and BARYON production 22 Messina, Italy
 - 3) Physics beyond hadronic interactions: Light Dark Matter, muon and neutrino beams
 - 4) infrastructures DETECTORS and ACC POSITRON, HI-LUMI, HI-ENERGY JLab upgrades
- Many ideas were presented as an extension of the current JLab program or as a unique option at an upgraded CEBAF/JLAB

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- Two dedicated discussion sessions were not enough to accommodate all thoughts and comments
 - ABSTRA Strong interest in JLab upgrades by USERS and lab management
 - ★ Solid ground for a sound proposal for JLab upgrade(s)
- .. but a long way to go
 - Define priorities in the physics program (golden channels vs comprehensive physics program)
 - Define inputs to stage the three possible different upgrades (high energy, high lumi, positrons)
 - Define a strategy to cope with the EIC competition: identify complementarities
 - Define a work plan to match the next NSAC Long Range Plan timeline
- We propose to create four WGs (3 physics + I technical)
- Coordinate the USER activity in the next few months
- Coordinate with JLab topical workshops an acc studies planned for the next few months
- Prepare the ground and four summary reports for the ECT* workshop in September 26-30 2022

Program and abstract submission on: https://indico.jlab.org/e/ifuture

Contribute to the white paper in the fall 2022