

Notes and Comments on MHEP Operation 2026

HT Wong (2026/05/05)

Feedback and comments following Suen's message on 05/04, and as input to the 05/11 meeting.

1. The equipment budget is revised relative to the 2022 Plans.

Request and Proposal of Equipment Fund (as July 24th): Total amount (Spent amount)

	2022	2023	2024	2025	2026
ATLAS/STAR	0.0	0.0	4.0	4.0 (1346.8962)	5.0
TEXONO/LIGO	2.0	2.0	1.5	1.5 (1.5)	2.0
KAGRA	0.5	0.5	2.0	0.5 (0.56)	0.5
TASEH	1.65	2.5	1.0	0.5(0)	1.0
Hadron	1.5	1.0	1.0	1.0 (0.56)	1.0
Instrumentation	0.5	0.5	0.5	0.5 (0.47)	0.5
Computing (GW)	1.13	3.5	1.0	0.5 (0)	1.0
Sum	7.28	10.0	11.0	8.5 (5.5)	12.0



115年度機組設備，因立法院尚未通過，為避免影響本所研究作業進度，經所長指示暫依預算法第54條動支，中需能給首撥1040萬元，我目前概算如下，是否需要調整？

張元翰	搜尋低質量暗物質與軸子實驗，4-5GHz頻段微波放大器及微波信號讀出元件，低溫環境磁場屏蔽設備 (magnetic shielding)	1,300,000
王嵩銘	探測器訊號處理精密電子與數據擷取儀器	1,300,000
	新進研究人員實驗室開辦所需之儀器、設備及各實驗室小型儀器 (以下各項合計)	3,400,000
阮野城	電力實驗室雷射儀器系統	0
王子敬	電力實驗室系統儀器與配件	0
王子敬	訊號處理精密電子與數據擷取儀器	0
王子敬	微中子探測器專款	0
鄭文麗	高壓模組	0
鄭文麗	可編程邏輯晶片系統元件	0
王嵩銘	GPU 計算處理器	1,000,000
侯書雲	ATLAS Phase-II升級製備，與CEPC能標束流LumiCal探測器製備之電子擷出設備	2,400,000
楊毅	ATLAS大型環境降箱與數據擷取系統	1,000,000
	合計	10,400,000

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The 2022 plans were made after meticulous discussions among this Group in multiple meetings. While we all should endorse flexibilities and efficiencies, it is justified – and appropriate – to have brief notes on the reasons behind the proposed changes (e.g. unforeseen expenses would be strong ones ...)

2. The TEXONO group has joined KAGRA (and hence phasing out in LIGO in coming months) in preparation for transitions to IGWN. All of L,V,K will be phased out in a few years, and replaced by a global body IGWN. The L-activities are integrated with existing K's activities under Sada Haino. While SH will remain as PI and the interface person with K's coordinators, HW will oversee the activities at ASIOP. In particular, HW will follow and secure and coordinate the MHEP budget (equipment, general affairs, and travels) placed under SH – and be accountable to the Group. The SH's shares will be invested exclusively on IOP's GW activities and SH will be notified and confirm before the actual spending.

- The first example will be that all our small expenses (user fee, training courses, materials and logistic cost of our work at TSRI – Taiwan Semiconductor Research Institute) will be placed under SH's General Affairs pool. The first case was just submitted.
- Travels to GW meetings in the summer will likely be partially derived from the SH's Travel Pool.

3. On **Equipment budget**: given the new sharing proposal, we (HW+SH) can operate

at the minimal level of 500k for each of us (total 1M), for KAGRA laser contributions (a case of ~289k was already submitted early April under SH's pool) and the inevitable small items wear and tear. This can apply to both 2026 and 2027.

- From 2028 onwards when our Thematic project on GW will expire, the MHEP budget will be a lifeline and the request is likely to increase.

4. On **Travels budget**: in addition to the per PI-head share for SH+HW, the TEXONO group requests a larger share for the summer travels of our postdoc fellows (4+1 currently, the +1 is one under Liu Guo-Chin (IOP adjunct faculty) admin-wise from TKU, but essentially is based at AS and works on SGWB).

- For 2026, the request is "an additional 100K". One may take this as a swap with our sub-average share in equipment allocation.
- For productive use of "Travels" budget, the "size of team" is relevant. For 2027 onwards, I proposal we may consider a sharing weight of [PI + No. of Postdoc/N], in which N=2—3 seems reasonable.