

Burst

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on behalf of the KAGRA burst group

Before starting activities of bursts group

- How we manage the group
 - What kind of proposals we have.
 - Decision of subgroups we need for all proposal can belong to , considering number of proposals in each subgroup, LV burst subgroups.
 - The subgroups are defined so that they will join the LV sub groups smoothly.
 - I would propose following:
 - Each subgroup has chair.
 - The chairs manage their subgroups.
 - The chairs and Hayama have communication by having regular meetings.

Summary of research unit

- Searches
 - All sky
 - Cosmic strings : Cannon, Kuroyanagi
 - Supernovae : Zong-Hong, Putten, Hayama, Miyoki,
 - All kind: Tjonnie LI
 - Polarization : Tjonnie Li
 - Triggered searches
 - Pulsar glitches : Hui
 - Supernovae : Hayama, Oohara, Takahashi
 - Others
- Post-processing (very similar to characterization of burst signals)
 - Denoising, event rejection : Yokoyama, Tjonnie Li, Takahashi
 - Time-frequency analysis : Itoh, Kanda, Kong, Oohara, Pinto
 - Parameter estimation : Feng-Li Lin, Tjonnie Li, Hayama
- Characterization of burst signals
 - Classification : Pinto
 - Non-Gaussian : Yokoyama, Pinto
 - Using PEM : Miyoki
 - Machine learning : Kong, Liu, Takahashi

Summary of research unit

- Please let me know
 - There missing projects
 - I misunderstand your project
- From the summary, proposals are classified following topics:
 - Searches : 12 groups
 - Post processing : 11 groups
 - Characterization of bursts : 5 groups

The target

Each subgroup should have several short-term projects and long-term projects. The priority has to be clearly defined and human resource should be concentrated into high-priority projects.

- Short term (O3)
 - Time scale is tight.
 - Each subgroup should have selling points which makes LV projects different.
 - The selling point should have scientifically meaning.
- Long term
 - Priority is low.
 - It is easy for you to put your proposal here

Asking

- Do the subgroups satisfy you?
 - If not, let's make correction.
 - If so, let's select chairs within the members of the subgroups.

I would like to make this our starting points.