Following a three-month prioritization process involving managers, technologists, scientists, and subject-matter experts from APD and the Program Offices, as well as independent reviewers, the following is the joint Astrophysics Technology Gap Priority List. This list will inform APD technology development planning as well as decisions on what technologies to solicit, and will be considered when making funding decisions. Tiers are in descending priority order. The gaps within any given tier are to be considered as equally prioritized (which is why the gaps are arranged alphabetically within each tier).