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Lessons from a Large Survey: The First Decade of Pan-STARRS Observations

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This year marks the ten year anniversary of first light of the Pan-STARRS1 (PS1) telescope and 1.4 gigapixel GPC1 camera. In the subsequent decade, the Pan-STARRS Image Processing Pipeline (IPP) has continually evolved, culminating in our first data release of approximately three billion sources and one million image stacks at the end of 2016. In this presentation, I will talk about some of the challenges and solutions we have encountered in developing the current version of the IPP. This code base has enabled us to conduct a full reprocessing of the PS1 archive without impacting our ongoing asteroid search program. I will also discuss the additional data products in our future DR2 release.

Topic:

Large photometric surveys

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Session Classification: Workshop