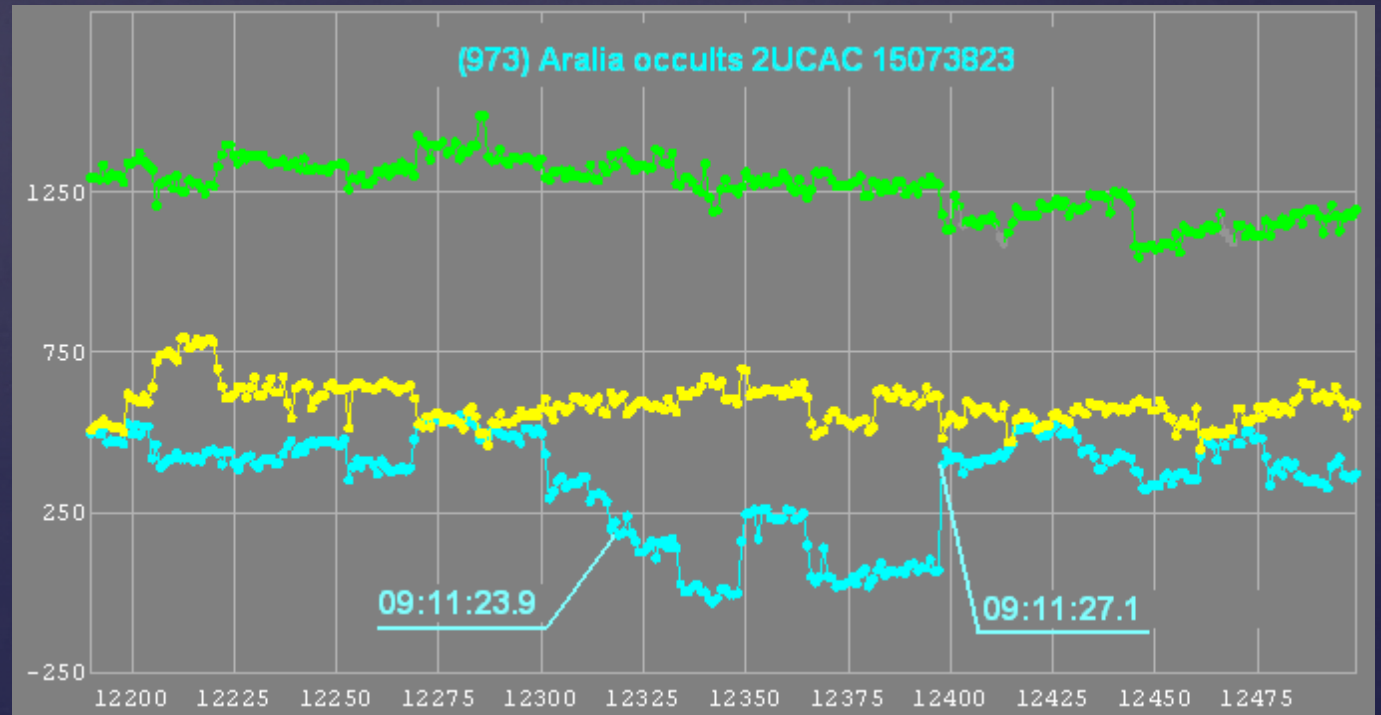
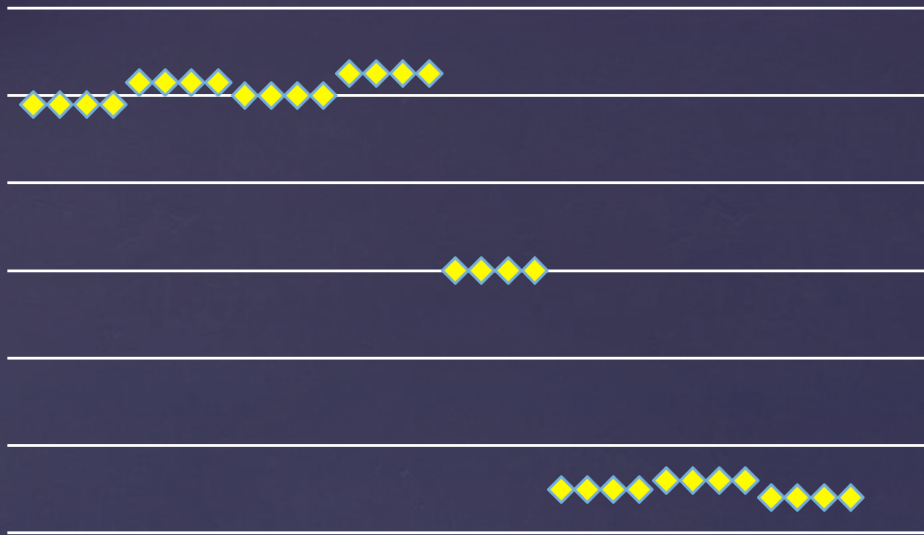


# OccuRec - Specialized Software for Video Occultation Recording

{ Hristo Pavlov  
{ Lucky Star Workshop, Paris, 18-19 Apr 2016

# Issues with AVI files

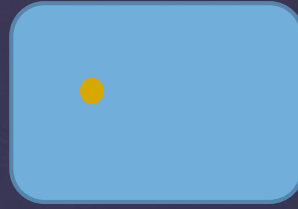
- Repeated information
- Larger file size
- Measurement issues requiring binning



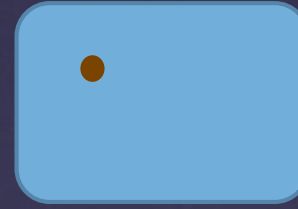
Repeated Measurements



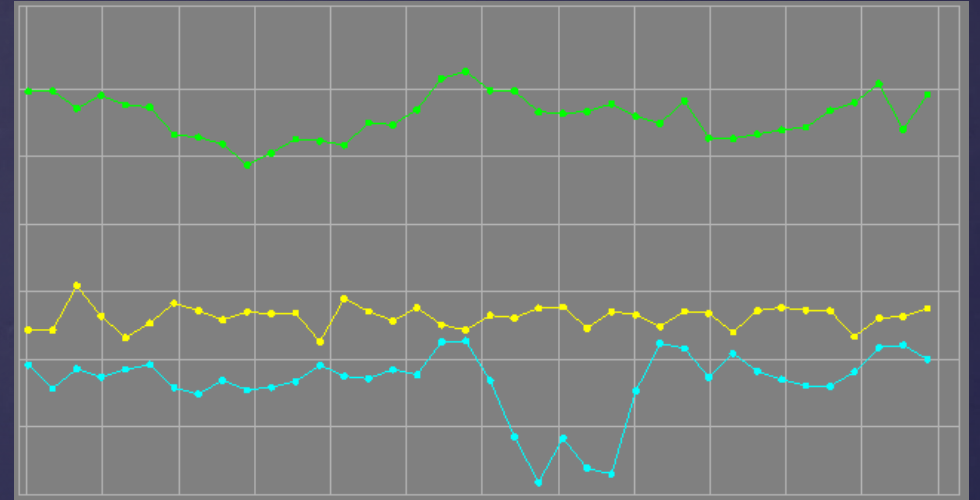
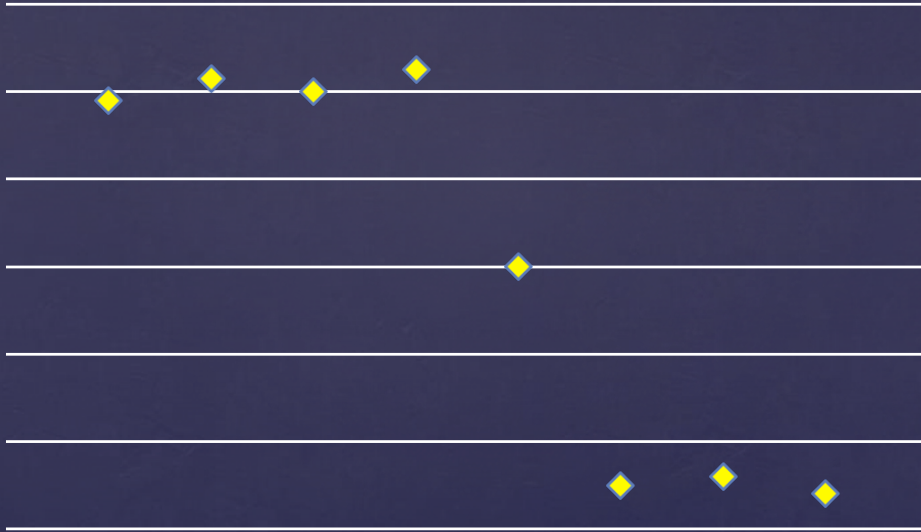
6716



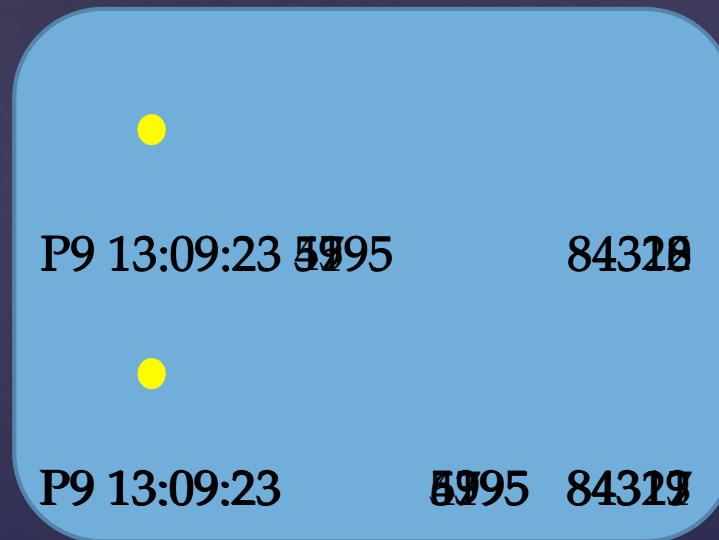
6720



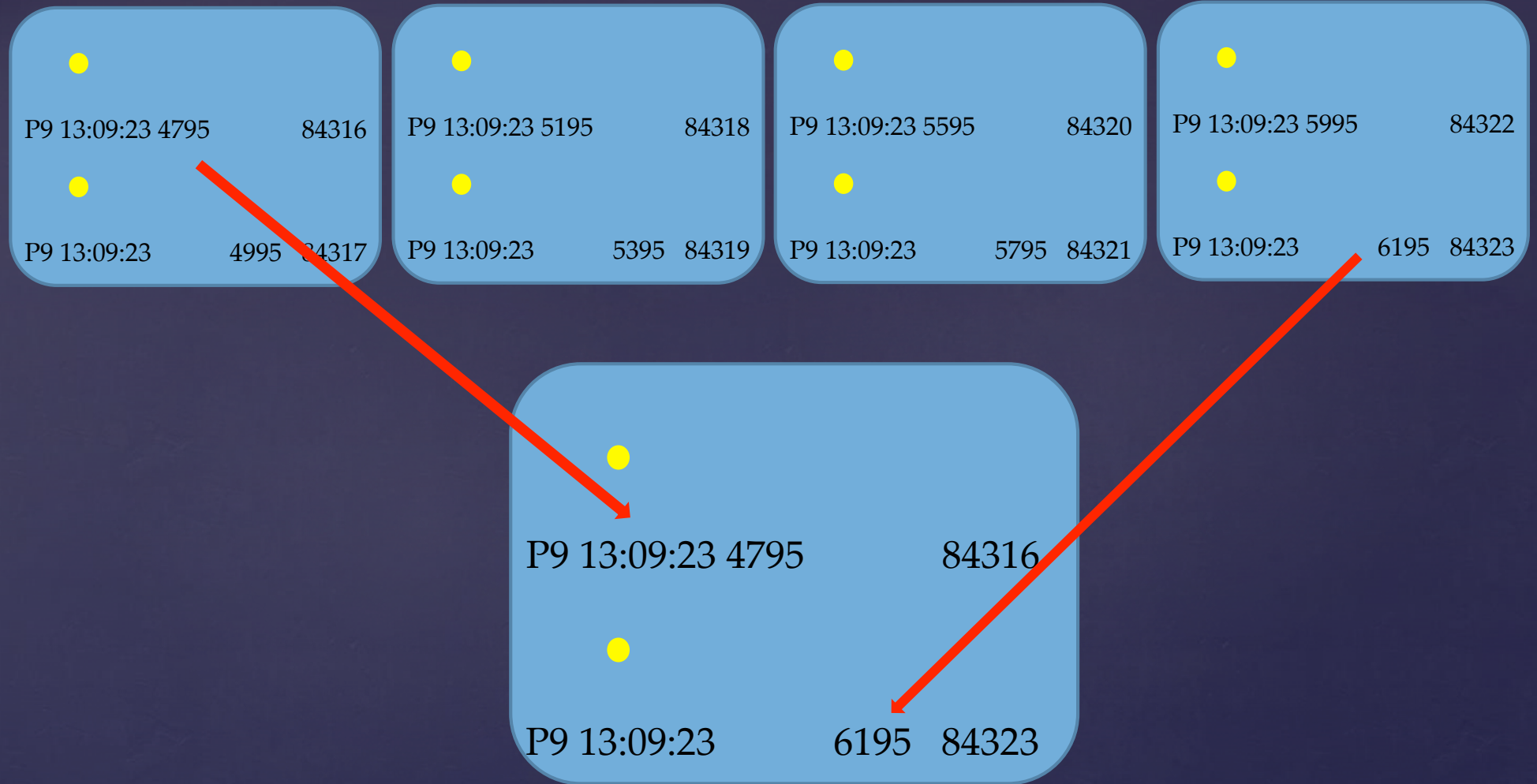
6724



Measurements - Software Binning



# Recording Time Binning or Averaging



Composing a Clear Timestamp



P9 13:09:23 4795 4995 84316

Preserving VTI-OSD Lines

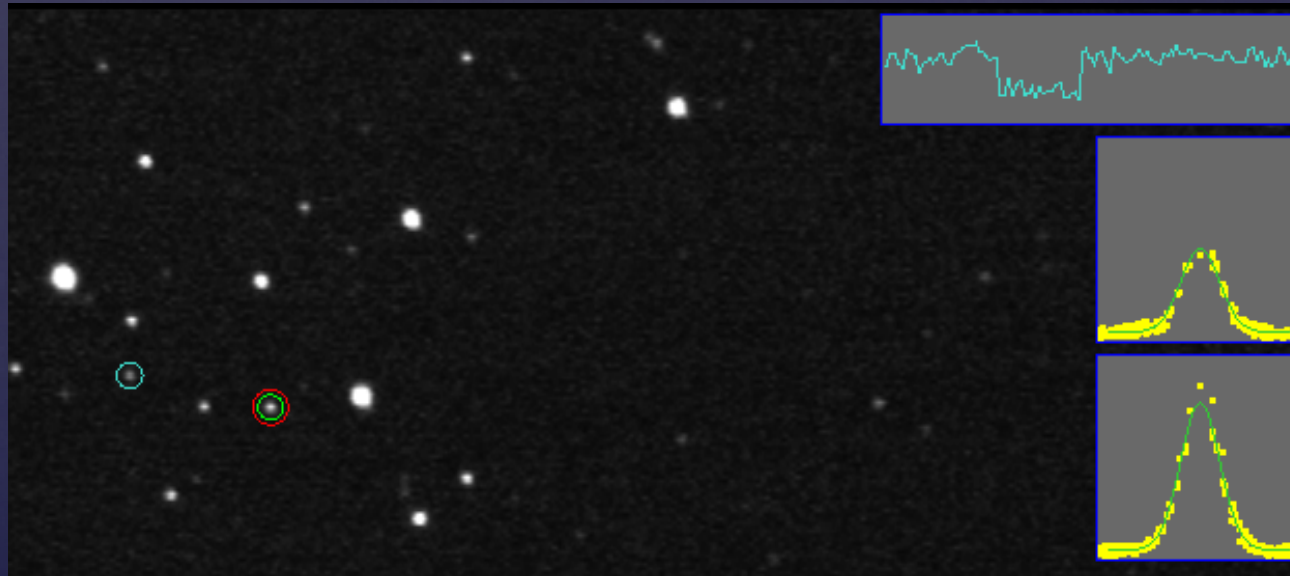
# Integration Detection

- Algorithm – Automatic Detection
- Calibration and Adjustments
- Algorithm - Manual Integration Rate
- Integration Rates of  $x_1$  and  $x_2$



# On-The-Fly Tracking and Measuring

- Guiding and Tracking Stars
- Live Light Curve



# Demo

## OccuRec in Action

# OccuRec is “WinVideoRec”

- Telescope and Focuser control via ASCOM
- Direct control of WAT-910BD
- Video Camera control via ASCOM
- CCD Camera control via ASCOM (ICamera and IVideo)

# Other Development ...

- Auto focusing
- Auto pulse-guiding
- Improved Observatory Control
- Plate-solving and field identification
- Unattended occultation recording
- Spectroscopy

# Questions?

<http://www.hristopavlov.net/OccuRec>