

Spectrometer flux calibration

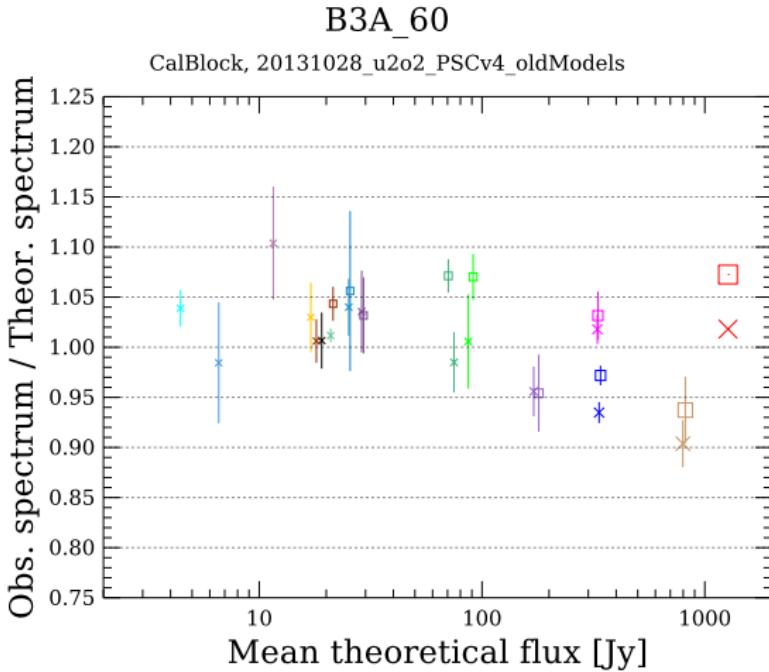
Spectrometer pipeline meeting, November 2013, MPE, Garching

Linearity

Linearity

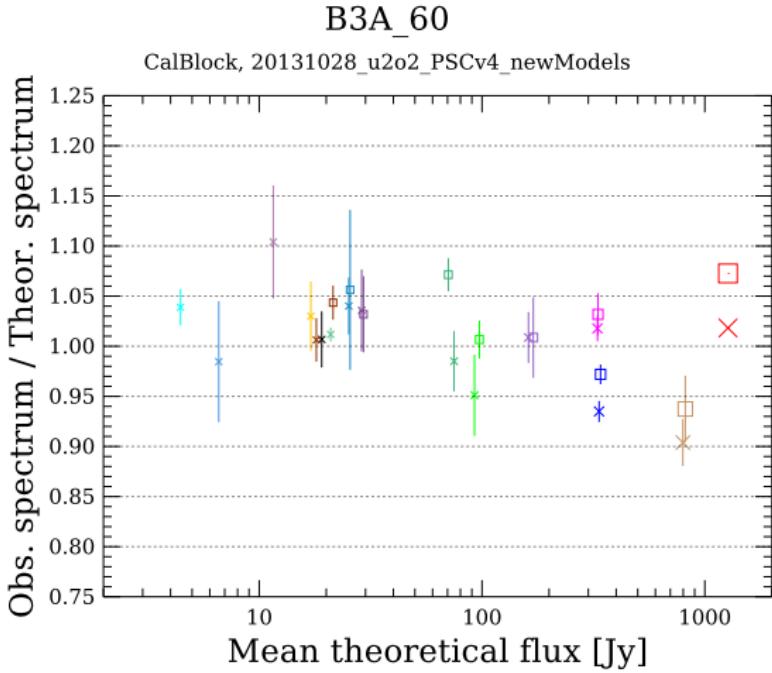
- ▶ Scatter plots as a function of the theoretical flux
- ▶ Averaged values: one point per object and per observation type (key wavelength or SED)
- ▶ 4 plots for each band, 2 for the calibration blocks, 2 for the normalization
 - ▶ Calibration blocks: influence of the new models of Ceres, Pallas and Vesta
 - ▶ Normalization: influence of the pointing correction

B3A_60



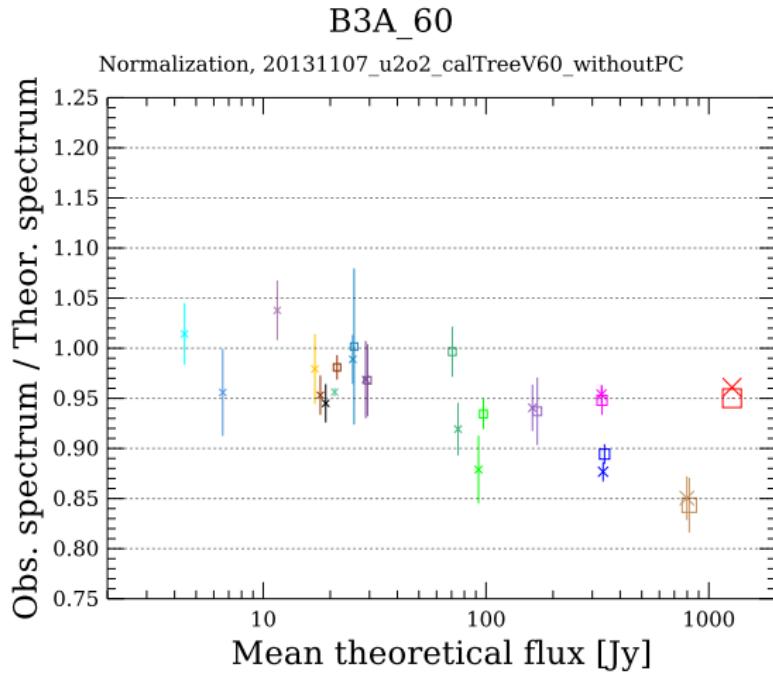
AlpBoo, Key	AlpCet, Key	AlpTau, Key
BetPeg, Key	Callisto, Key	Callisto, SED
Ceres, Key	Ceres, SED	Europa, Key
Europa, SED	GamDra, Key	Hebe, Key
Hebe, SED	Hygiea, Key	Hygiea, SED
Juno, Key	Juno, SED	Neptune, Key
Neptune, SED	Pallas, Key	Pallas, SED
Thisbe, Key	Uranus, Key	Uranus, SED
Vesta, Key	Vesta, SED	

B3A_60



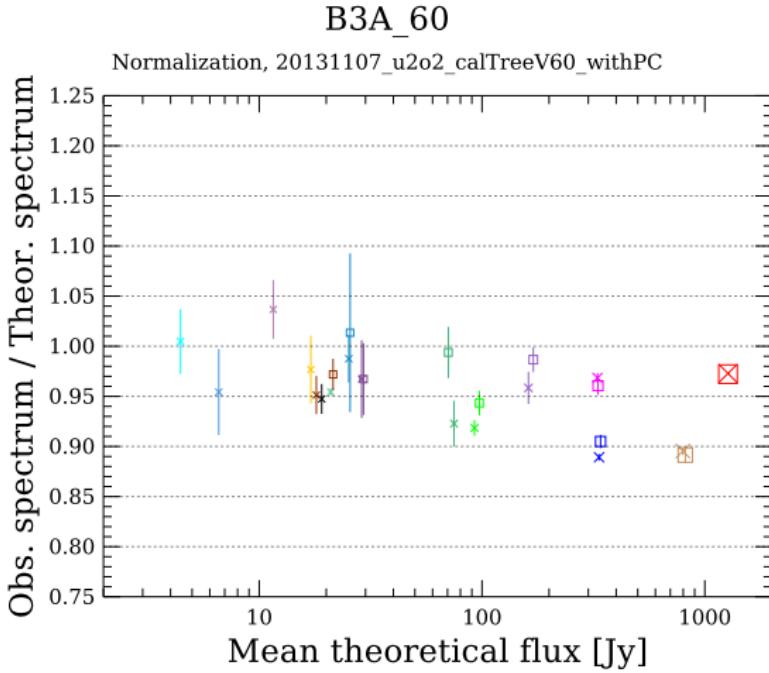
AlpBoo, Key	AlpCet, Key	AlpTau, Key
+	+	+
BetPeg, Key	Callisto, Key	Callisto, SED
+	+	□
Ceres, Key	Ceres, SED	+
+	+	×
Europa, SED	Europa, Key	Europa, Key
+	+	+
Hebe, SED	Hygiea, Key	Hebe, Key
+	+	+
Juno, Key	Juno, SED	Hygiea, SED
+	+	□
Neptune, SED	Pallas, Key	Neptune, Key
+	+	+
Thisbe, Key	Uranus, Key	Pallas, SED
+	+	□
Vesta, Key	Vesta, SED	Uranus, SED
+	+	□

B3A_60

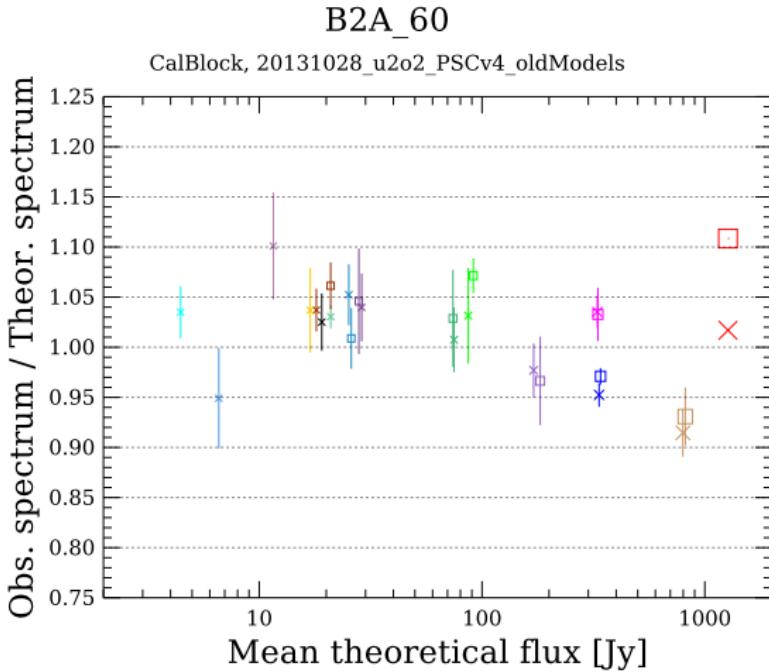


x AlpBoo, Key	x AlpCet, Key	x AlpTau, Key
x BetPeg, Key	✗ Callisto, Key	✗ Callisto, SED
✗ Ceres, Key	✗ Ceres, SED	✗ Europa, Key
□ Europa, SED	✗ GamDra, Key	✗ Hebe, Key
□ Neptune, SED	✗ Hygiea, Key	□ Hygiea, SED
✗ Juno, Key	✗ Juno, SED	✗ Neptune, Key
✗ Thisbe, Key	✗ Pallas, Key	✗ Pallas, SED
✗ Vesta, Key	✗ Uranus, Key	□ Uranus, SED

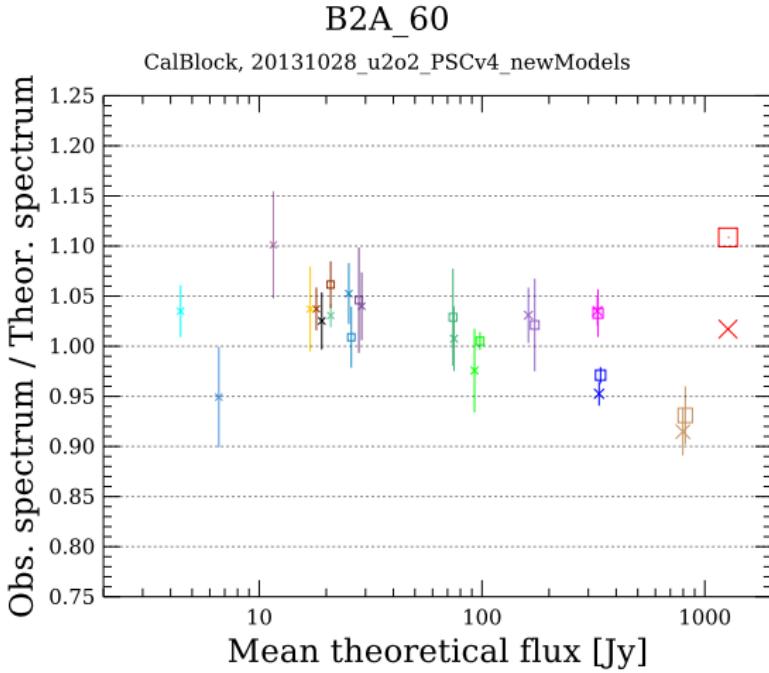
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B2A_60

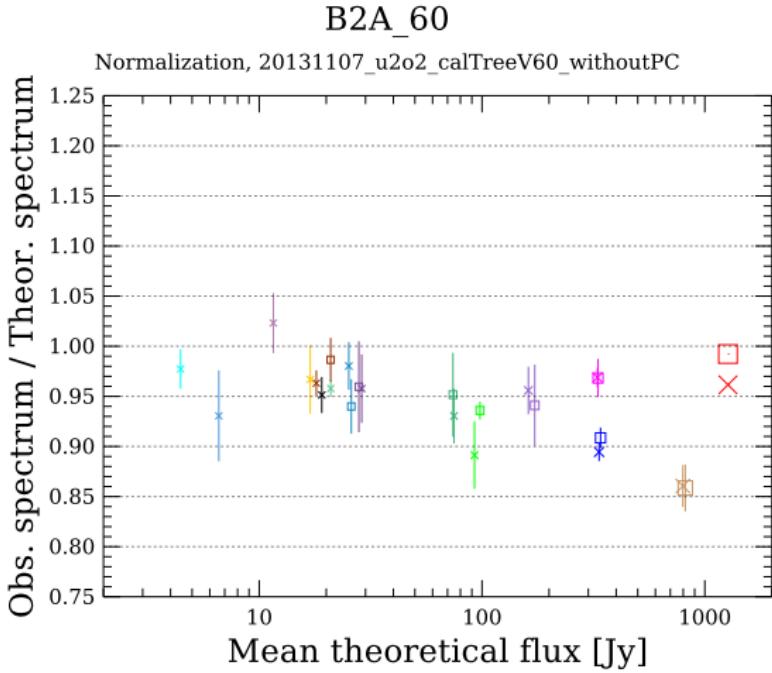


B2A_60



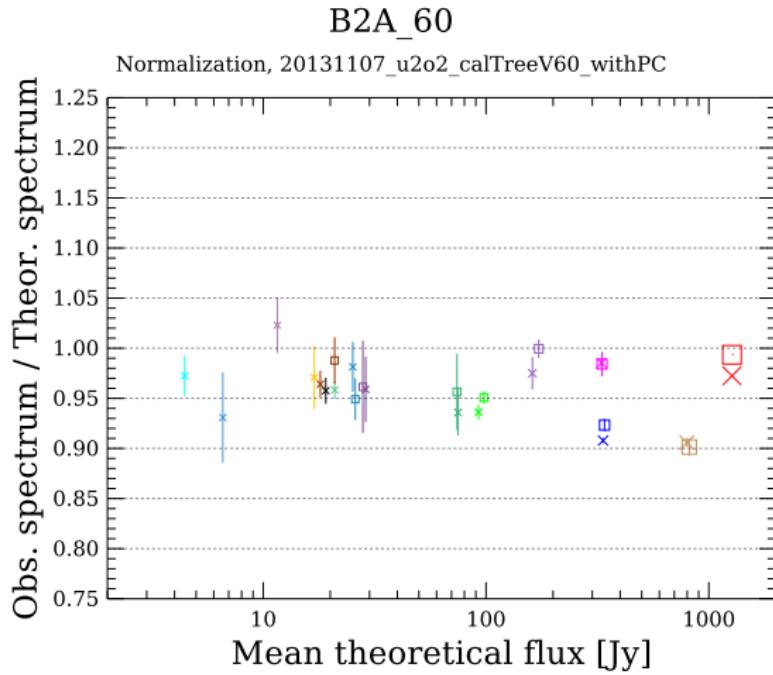
AlpBoo, Key	AlpCet, Key	AlpTau, Key
+	+	+
BetPeg, Key	Callisto, Key	Callisto, SED
+	+	□
Ceres, Key	Ceres, SED	+
□	+	+
Europa, SED	GamDra, Key	Europa, Key
□	+	+
Hebe, SED	Hygiea, Key	Hebe, Key
□	+	+
Juno, Key	Juno, SED	Hygiea, SED
□	□	□
Neptune, SED	Pallas, Key	Neptune, Key
□	+	+
Thisbe, Key	Uranus, Key	Pallas, SED
+	+	□
Vesta, Key	Vesta, SED	Uranus, SED
+	□	□

B2A_60

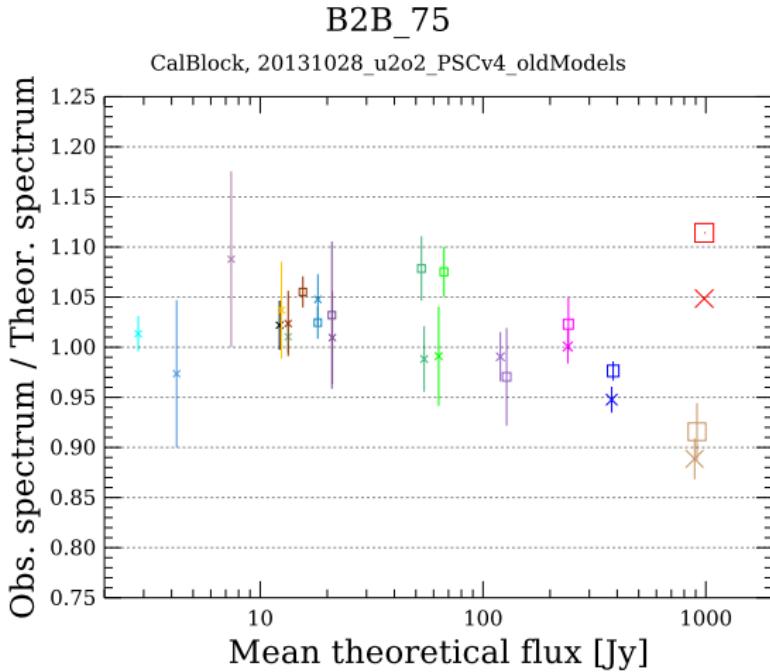


×	AlpBoo, Key	×	AlpCet, Key	×	AlpTau, Key
×	BetPeg, Key	✗	Callisto, Key	□	Callisto, SED
✗	Ceres, Key	□	Ceres, SED	✗	Europa, Key
□	Europa, SED	✖	GamDra, Key	✗	Hebe, Key
□	Hebe, SED	✖	Hygiea, Key	□	Hygiea, SED
✗	Juno, Key	□	Juno, SED	✖	Neptune, Key
□	Neptune, SED	✖	Pallas, Key	□	Pallas, SED
✗	Thisbe, Key	✗	Uranus, Key	□	Uranus, SED
✗	Vesta, Key	□	Vesta, SED		

B2A_60

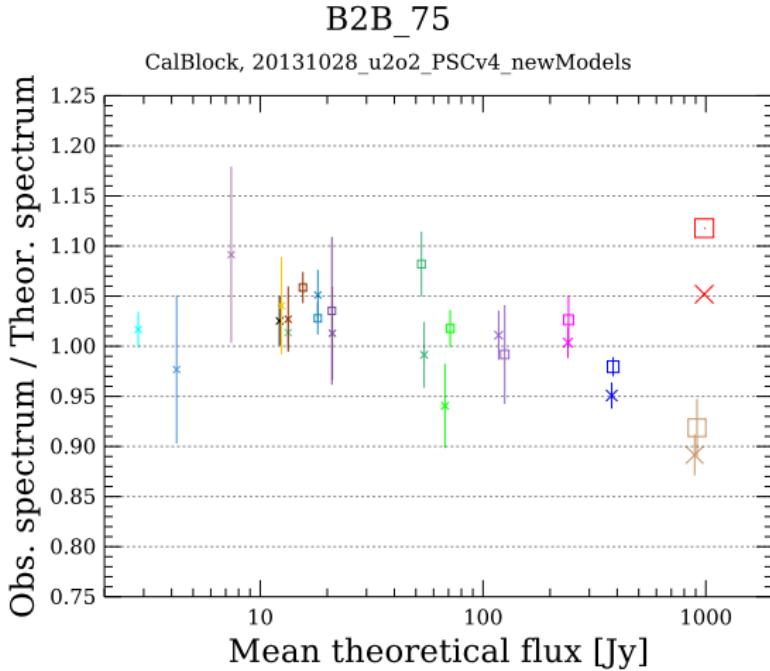


B2B_75



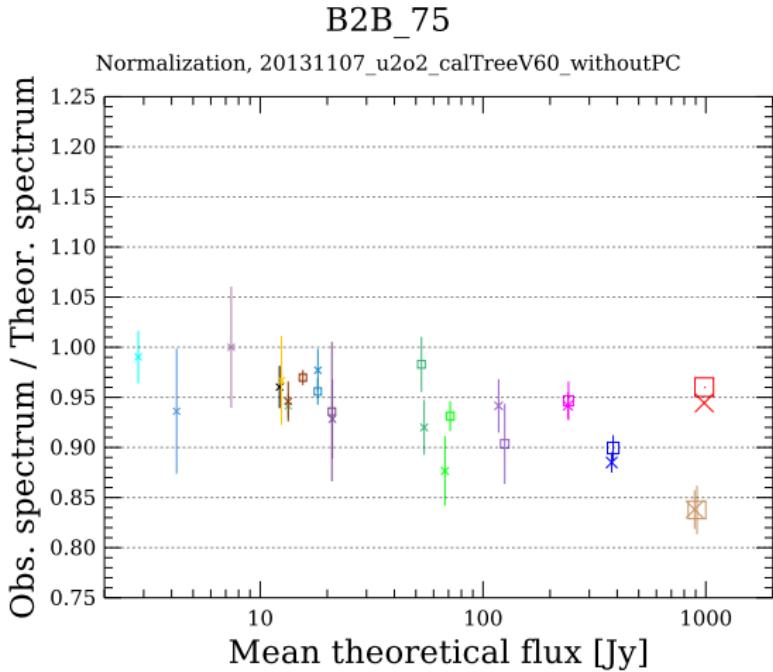
×	AlpBoo, Key
×	BetPeg, Key
×	Ceres, Key
□	Europa, SED
□	Hebe, SED
×	Juno, Key
□	Neptune, SED
×	Thisbe, Key
×	Vesta, Key
×	AlpCet, Key
×	Callisto, Key
□	Ceres, SED
×	GamDra, Key
×	Hygiea, Key
□	Hygiea, SED
□	Juno, SED
×	Pallas, Key
×	Uranus, Key
□	Vesta, SED
×	AlpTau, Key
□	Callisto, SED
×	Europa, Key
×	Hebe, Key
□	Hygiea, SED
×	Neptune, Key
□	Pallas, SED
□	Uranus, SED
□	Vesta, SED

B2B_75



AlpBoo, Key	AlpCet, Key	AlpTau, Key
BetPeg, Key	Callisto, Key	Callisto, SED
Ceres, Key	Ceres, SED	Ceres, SED
Europa, SED	GamDra, Key	Europa, Key
Hebe, SED	Hygiea, Key	Hebe, Key
Juno, Key	Juno, SED	Juno, SED
Neptune, SED	Pallas, Key	Neptune, Key
Thisbe, Key	Uranus, Key	Pallas, SED
Vesta, Key	Vesta, SED	Uranus, SED

B2B_75

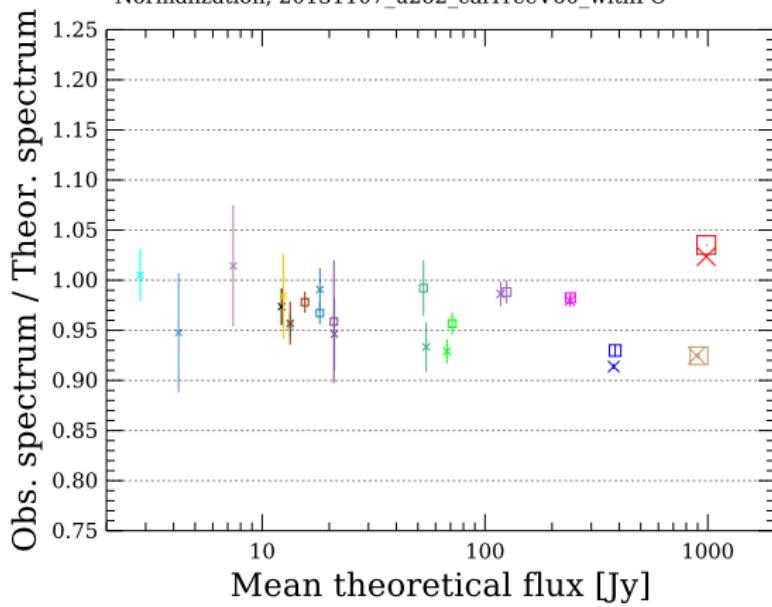


AlpBoo, Key	AlpCet, Key	AlpTau, Key
BetPeg, Key	Callisto, Key	Callisto, SED
Ceres, Key	Ceres, SED	Europa, Key
Europa, SED	GamDra, Key	Hebe, Key
Hebe, SED	Hygiea, Key	Hygiea, SED
Juno, Key	Juno, SED	Neptune, Key
Neptune, SED	Pallas, Key	Pallas, SED
Thisbe, Key	Uranus, Key	Uranus, SED
Vesta, Key	Vesta, SED	

B2B_75

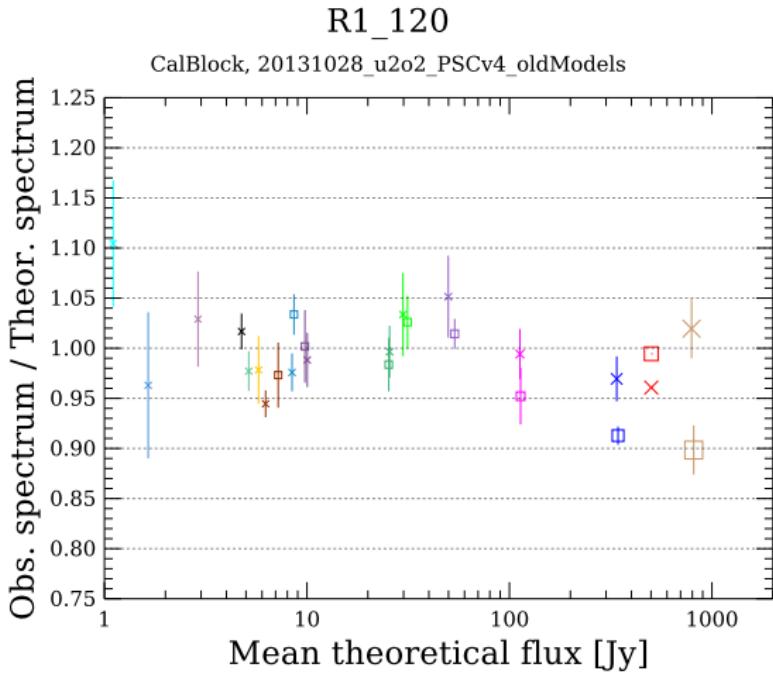
B2B_75

Normalization, 20131107_u2o2_calTreeV60_withPC



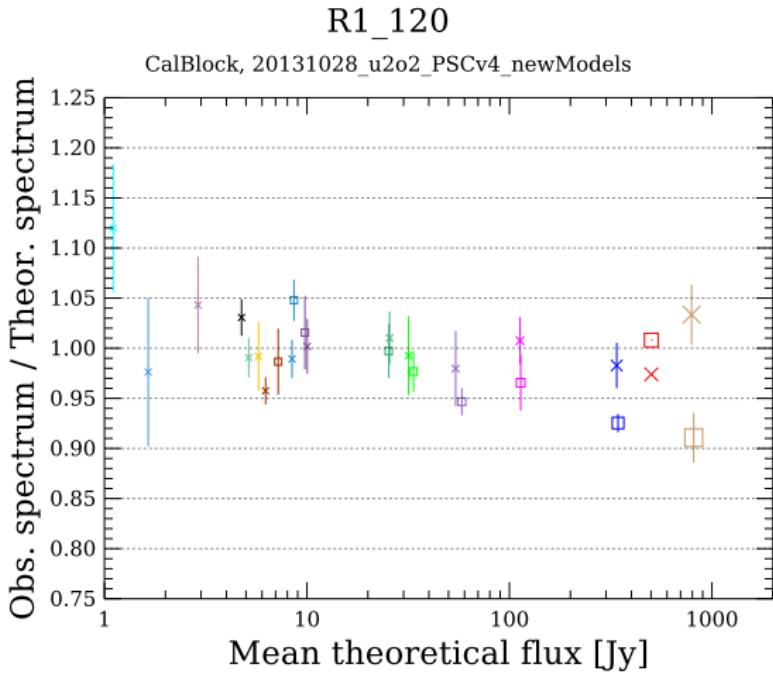
×	AlpBoo, Key	×	AlpCet, Key	×	AlpTau, Key
×	BetPeg, Key	×	Callisto, Key	□	Callisto, SED
×	Ceres, Key	□	Ceres, SED	×	Europa, Key
□	Europa, SED	×	GamDra, Key	×	Hebe, Key
□	Hebe, SED	□	Hygiea, Key	□	Hygiea, SED
×	Juno, Key	□	Juno, SED	×	Neptune, Key
□	Neptune, SED	×	Pallas, Key	□	Pallas, SED
×	Thisbe, Key	×	Uranus, Key	□	Uranus, SED
×	Vesta, Key	□	Vesta, SED		

R1_120



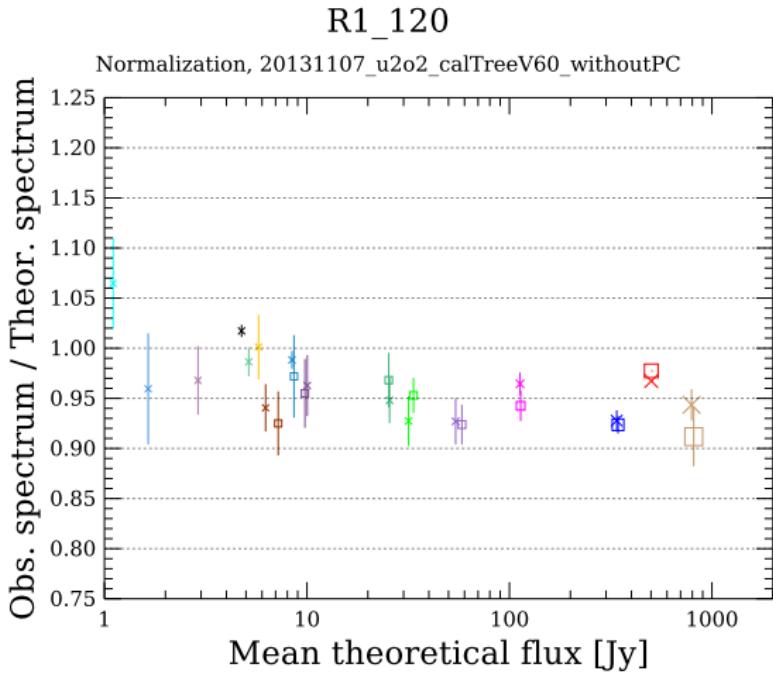
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x BetPeg, Key	x Callisto, Key	□ Callisto, SED
x Ceres, Key	□ Ceres, SED	x Europa, Key
□ Europa, SED	x GamDra, Key	x Hebe, Key
□ Hebe, SED	x Hygiea, Key	□ Hygiea, SED
x Juno, Key	□ Juno, SED	x Neptune, Key
□ Neptune, SED	x Pallas, Key	□ Pallas, SED
x Thisbe, Key	□ Uranus, Key	□ Uranus, SED
x Vesta, Key	□ Vesta, SED	

R1_120



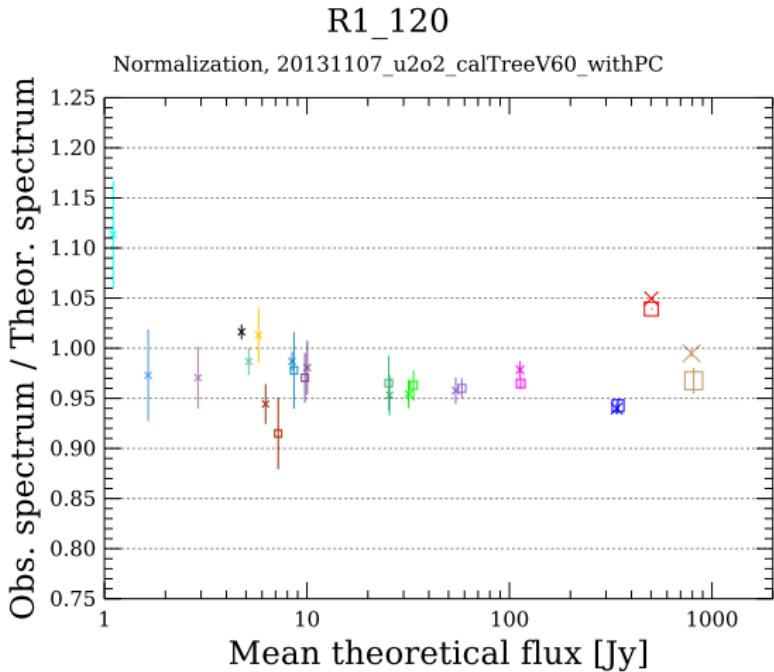
AlpBoo, Key	AlpCet, Key	AlpTau, Key
BetPeg, Key	Callisto, Key	Callisto, SED
Ceres, Key	Ceres, SED	Europa, Key
Europa, SED	GamDra, Key	Hebe, Key
Hebe, SED	Hygiea, Key	Hygiea, SED
Juno, Key	Juno, SED	Neptune, Key
Neptune, SED	Pallas, Key	Pallas, SED
Thisbe, Key	Uranus, Key	Uranus, SED
Vesta, Key	Vesta, SED	

R1_120

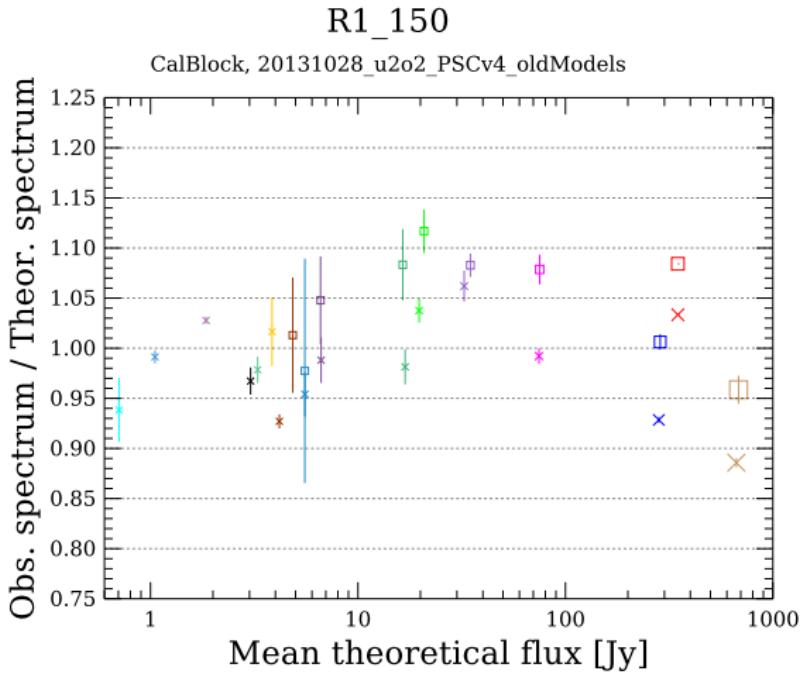


AlpBoo, Key	AlpCet, Key	AlpTau, Key
BetPeg, Key	Callisto, Key	Callisto, SED
Ceres, Key	Ceres, SED	Europa, Key
Europa, SED	GamDra, Key	Hebe, Key
Hebe, SED	Hygiea, Key	Hygiea, SED
Juno, Key	Juno, SED	Neptune, Key
Neptune, SED	Pallas, Key	Pallas, SED
Thisbe, Key	Uranus, Key	Uranus, SED
Vesta, Key	Vesta, SED	

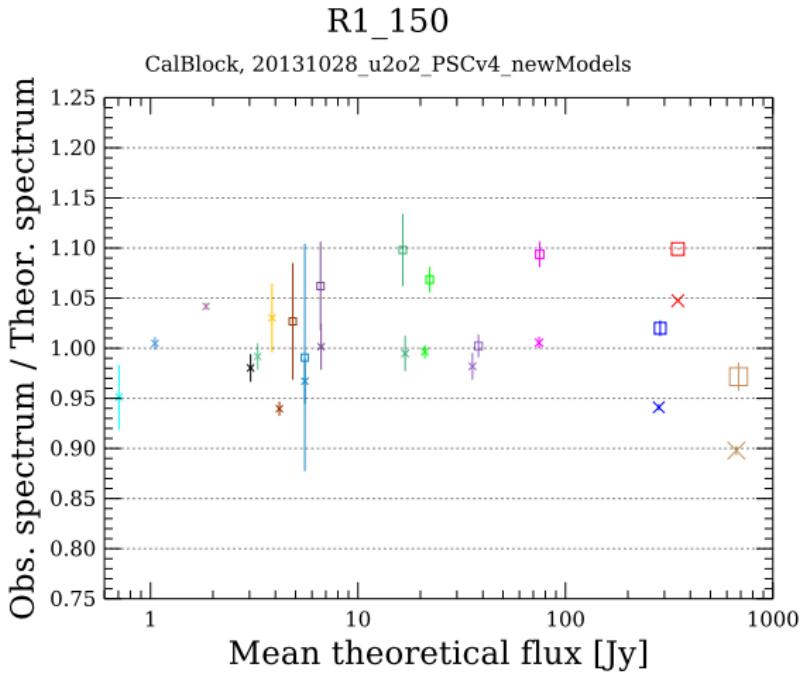
R1_120



R1_150

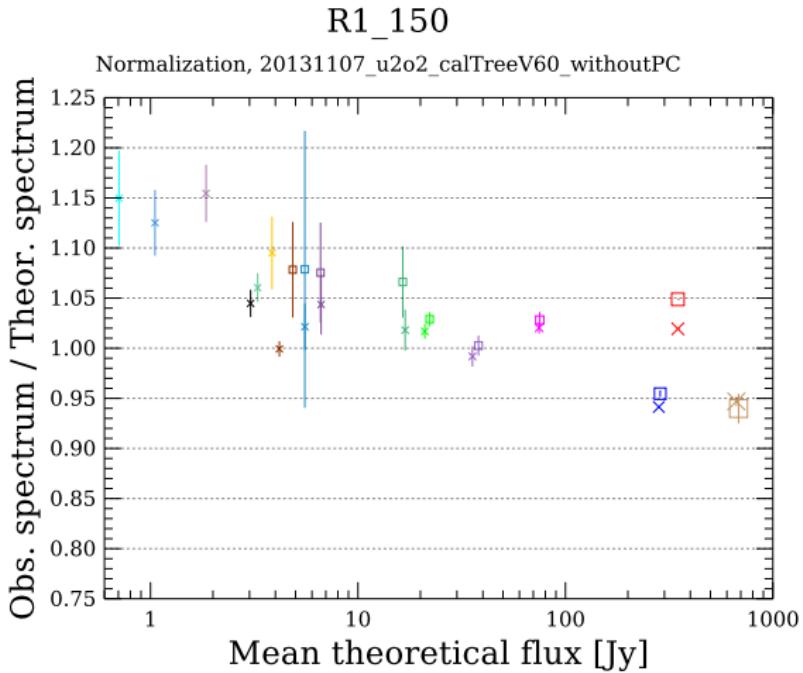


R1_150



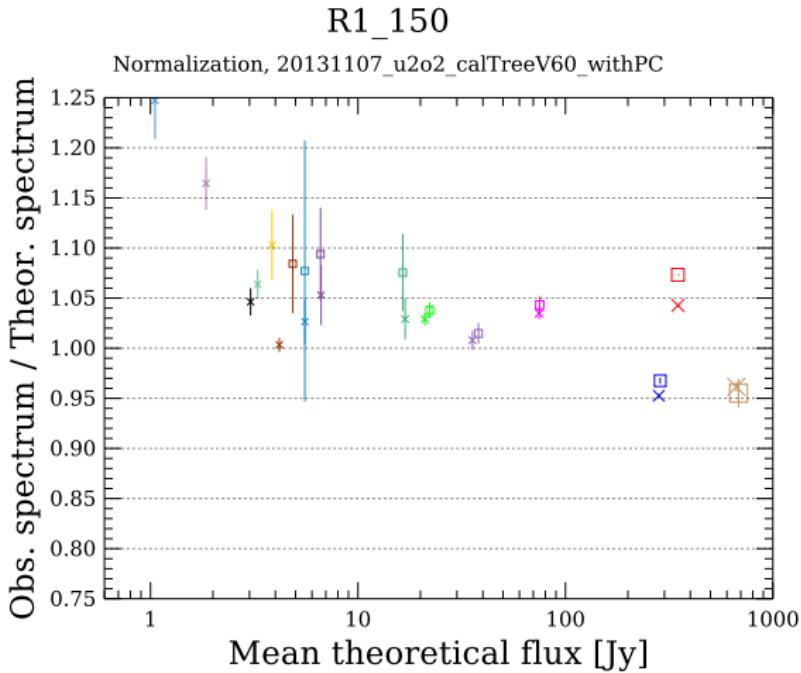
×	AlpBoo, Key
×	BetPeg, Key
×	Ceres, Key
□	Europa, SED
□	Hebe, SED
×	Juno, Key
□	Neptune, SED
>	Thisbe, Key
x	Vesta, Key
x	AlpCet, Key
×	Callisto, Key
□	Ceres, SED
×	GamDra, Key
×	Hygiea, Key
□	Juno, SED
□	Pallas, Key
×	Uranus, Key
□	Vesta, SED
×	AlpTau, Key
□	Callisto, SED
×	Europa, Key
×	Hebe, Key
□	Hygiea, SED
×	Neptune, Key
□	Pallas, SED
□	Uranus, SED

R1_150

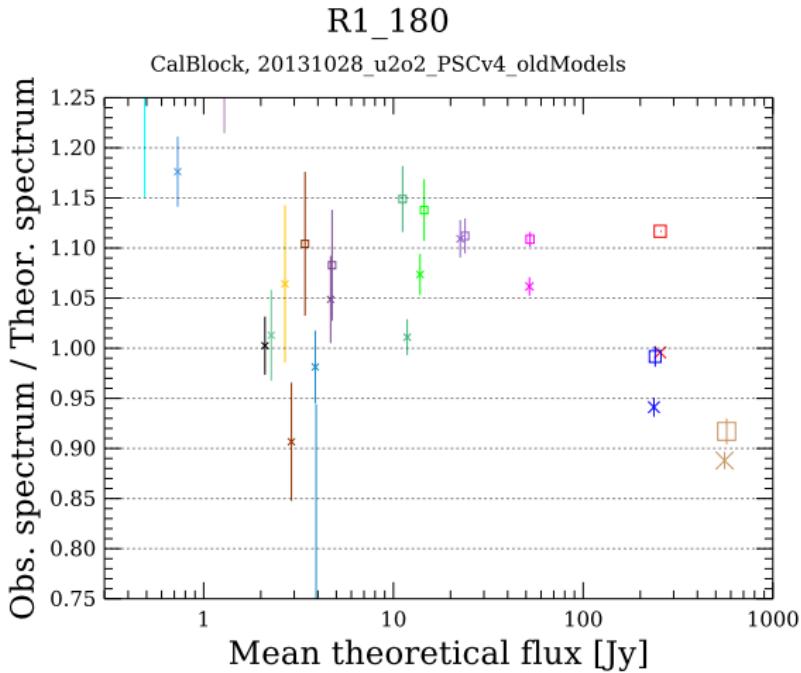


×	AlpBoo, Key	×	AlpCet, Key	×	AlpTau, Key
×	BetPeg, Key	×	Callisto, Key	□	Callisto, SED
×	Ceres, Key	□	Ceres, SED	×	Europa, Key
□	Europa, SED	×	GamDra, Key	×	Hebe, Key
□	Hebe, SED	×	Hygiea, Key	□	Hygiea, SED
×	Juno, Key	□	Juno, SED	×	Neptune, Key
□	Neptune, SED	×	Pallas, Key	□	Pallas, SED
×	Thisbe, Key	×	Uranus, Key	□	Uranus, SED
×	Vesta, Key	□	Vesta, SED		

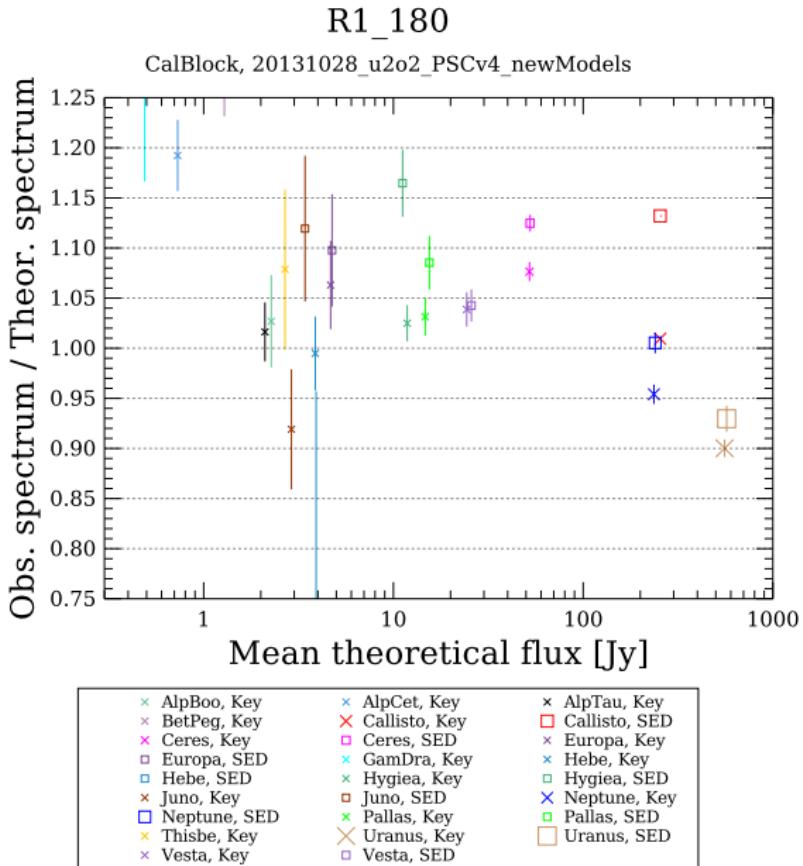
R1_150



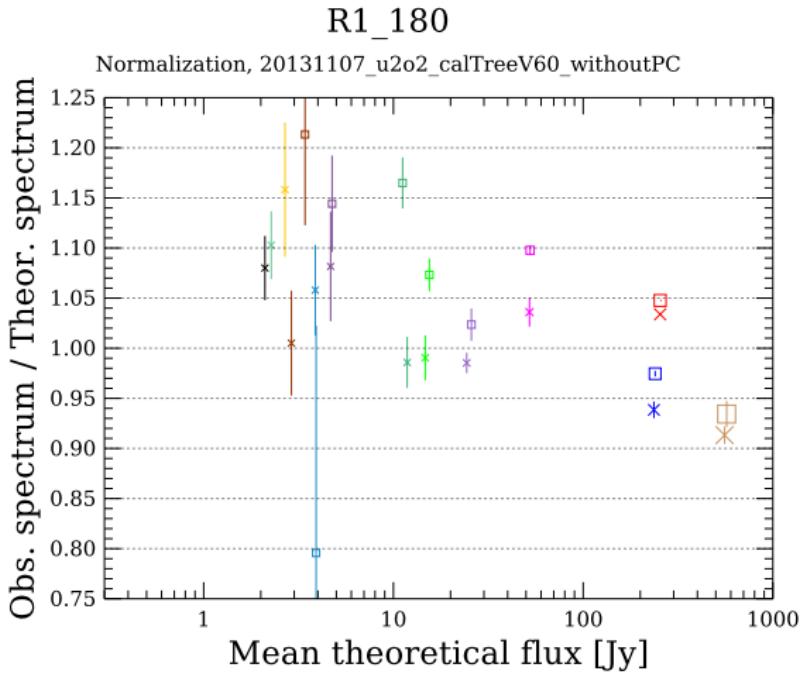
R1_180



R1_180

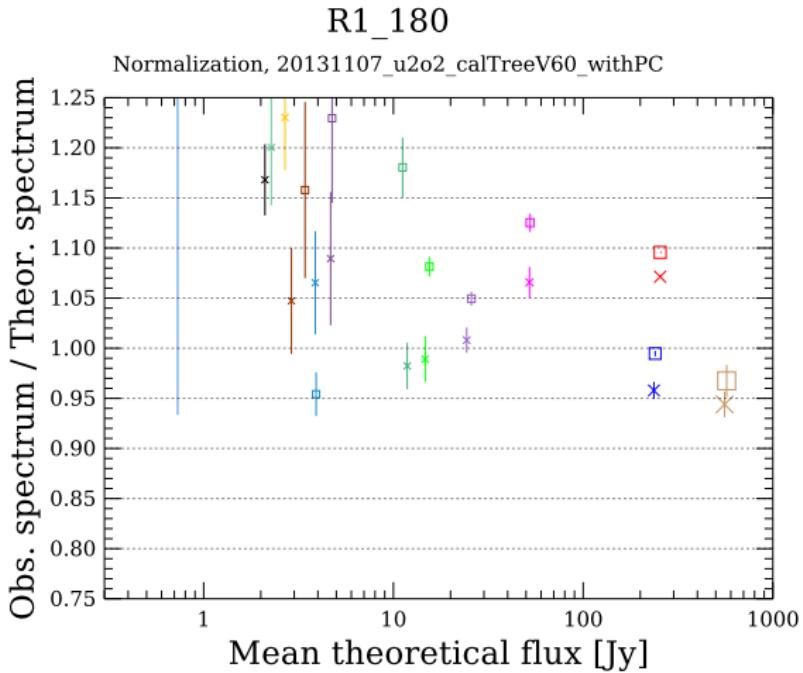


R1_180



AlpBoo, Key	AlpCet, Key	AlpTau, Key
+	+	+
BetPeg, Key	Callisto, Key	Callisto, SED
+	+	□
Ceres, Key	Ceres, SED	+
□	□	+
Europa, SED	GamDra, Key	Europa, Key
□	+	+
Hebe, SED	Hygiea, Key	Hebe, Key
□	+	+
Juno, Key	Juno, SED	□
□	□	□
Neptune, SED	Pallas, Key	Neptune, Key
□	+	□
Thisbe, Key	Uranus, Key	Pallas, SED
+	×	□
Vesta, Key	Vesta, SED	Uranus, SED
+	□	□

R1_180



x AlpBoo, Key	x AlpCet, Key	x AlpTau, Key
x BetPeg, Key	x Callisto, Key	□ Callisto, SED
x Ceres, Key	□ Ceres, SED	x Europa, Key
□ Europa, SED	x GamDra, Key	x Hebe, Key
□ Hebe, SED	x Hygiea, Key	□ Hygiea, SED
x Juno, Key	□ Juno, SED	x Neptune, Key
□ Neptune, SED	x Pallas, Key	□ Pallas, SED
x Thisbe, Key	□ Uranus, Key	□ Uranus, SED
x Vesta, Key	□ Vesta, SED	