

# OST Killer Apps - Vote 2

June 12 2017

Sorted by Standard Deviation

<b>Science Case - Number and Title</b>	<b>Average Score</b>	<b>Std. Dev.</b>	<b>Rank</b>	<b>Min</b>	<b>Max</b>	<b>Range</b>
27: The First Dust	<b>9.07</b>	<b>0.80</b>	3	7	10	3
14: Biosignatures of Transiting Exoplanets <b>**revamped**</b>	<b>9.20</b>	<b>1.01</b>	2	7	10	3
19: The Rise of Metals	<b>9.27</b>	<b>1.10</b>	1	6	10	4
30: Survey of Small Bodies in the Outer Solar System	<b>7.27</b>	<b>1.58</b>	9	4	10	6
16: Direct Imaging of Exoplanets <b>**revamped**</b>	<b>6.93</b>	<b>1.58</b>	10	5	10	5
15: Direct Detection of Protoplanetary Disk Masses	<b>7.80</b>	<b>1.61</b>	6	4	10	6
5: Galaxy Feedback Mechanisms at $z < 1$	<b>6.80</b>	<b>1.70</b>	13	4	9	5
New#1 The EBL (extra-galactic background light) with OST	<b>5.93</b>	<b>1.71</b>	18	3	9	6
21: Connection Between Black Hole Growth and Star Formation Over Cosmic Time	<b>7.87</b>	<b>1.73</b>	5	4	10	6
24: Feedback on All Scales in the Cosmic Web	<b>6.47</b>	<b>1.73</b>	16	2	9	7
17: Episodic Accretion in Protostellar Envelopes and Circumstellar Disks	<b>5.40</b>	<b>1.76</b>	20	1	8	7
4: Water Transport to Terrestrial Planetary Zone	<b>6.67</b>	<b>1.84</b>	14	3	10	7
22: Star Formation and Multiphase ISM at Peak of Cosmic Star Formation	<b>6.93</b>	<b>1.87</b>	11	4	9	5
9: Water Content of Planet-Forming Disks	<b>8.20</b>	<b>1.90</b>	4	2	10	8
26: Birth of Galaxies During Cosmic Dark Ages	<b>7.80</b>	<b>1.90</b>	7	5	10	5
18: Galaxy Feedback from SNe and AGN to $z \sim 3$	<b>7.33</b>	<b>1.95</b>	8	3	10	7
New#3: Fundamental of dust formation around evolved stars	<b>5.13</b>	<b>1.96</b>	23	2	9	7
New#4: The dynamic interstellar medium as a tracer of galactic evolution	<b>5.07</b>	<b>2.02</b>	24	3	7	4
13: Frequency of Kuiper Belt Analogues	<b>6.47</b>	<b>2.03</b>	15	3	10	7
29: Thermo-Chemical History of Comets and Water Delivery to Earth	<b>6.87</b>	<b>2.13</b>	12	4	10	6
32: Find Planet IX	<b>5.27</b>	<b>2.43</b>	22	2	10	8
7: Magnetic Fields and Turbulence - Role in Star Formation	<b>6.07</b>	<b>2.46</b>	17	2	9	7
8: Formation and History of Low-Mass Ice Giant Planets	<b>5.33</b>	<b>2.47</b>	21	1	10	9
New#2: Determining the cosmic-ray flux in the Milky Way and nearby galaxies	<b>5.87</b>	<b>2.53</b>	19	1	9	8
New#5: Probing magnetic fields with fine structure lines	<b>5.00</b>	<b>2.57</b>	25	1	10	9