

# **Table of Infrared calibration stars as potential 300-GHz standards: December 12, 2010**

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## **1. Abstract**

We offer a table of the 16 brightest MIR standardS from our network, extrapolated as Rayleigh-Jeans tails to 300 GHz for testing as 1-mm amplitude calibrators for ALMA.

Total integration time on these 16 stars is 1.55 hr, to which overheads for observing the planetary calibrators and acquisition of all targets must be added.

Table 1: Attributes of the 16 stars selected for 300-GHz observations using 8 antennas, the current December 2010 configuration. Col.(5) gives the predicted 300-GHz flux density; Col.6 the sensitivity required to achieve the S/N in col.(4) and col.(7) the required integration time

Name	ICRS RA	ICRS DEC	S/N	Flux (mJy)	Sens(mJy)	time(sec)
$\gamma$ Cru	12:31:09.959	-57:06:47.562	100	89.4	0.894	106
HD44478	06:22:57.627	+22:30:48.909	50	27.8	0.556	290
HD71129	08:22:30.836	-59:30:34.139	40	22.2	0.555	277
HD167618	18:17:37.635	-36:45:42.070	40	19.8	0.495	330
HD106849	12:17:34.277	-67:57:38.649	40	18.6	0.465	413
HD133216	15:04:04.216	-25:16:55.073	40	18.1	0.453	392
HD25025	03:58:01.766	-13:30:30.655	20	11.5	0.575	244
HD24512	03:47:14.341	-74:14:20.264	20	11.2	0.560	298
HD187076	19:47:23.262	+18:32:03.500	20	10.9	0.545	295
HD213080	22:29:45.433	-43:44:57.205	20	10.8	0.540	280
HD145366	16:20:20.806	-78:41:44.682	20	9.87	0.494	402
HD189763	20:02:39.481	-27:42:35.441	20	9.79	0.490	335
HD11695	01:53:38.742	-46:18:09.607	20	8.96	0.448	409
HD216386	22:52:36.876	-07:34:46.557	20	8.53	0.427	446
HD89484	10:19:58.427	+19:50:28.530	20	8.37	0.419	502
HD12929	02:07:10.407	+23:27:44.723	20	8.04	0.402	554