iSHELL

iSHELL ETC needs

- Slit width
- On-chip itime
- Coadds
- Cycles
- Seeing
- SN

Slit Width (arcsec): 0.75 selected

itime (sec) 180

coadds 1

cycles 10

seeing (arcsec) 0.8

SN 100

Submit Request

The iSHELL ETC is simpler than the SpeX ETC since iSHELL covers a much smaller one-shot wavelength range. Note that the ETC *R* for a given slit-width is slightly smaller than the actual values (see the iSHELL PASP paper)

INPUT PARAMETERS

- Slit width (arcsec)= 0.750000
- SN= 100.000
- on-chip ITIME (sec)= 180.000
- number of coadds= 1.00000
- number of cycles= 10.0000
- R (per spectral resolution element)= 38000
- Seeing FWHM at K (arcsec)= 0.800000

(1)	(2)	(3)	(4)	(5)
1.10um	9.4879374	9.9693583	2.3195521e-14	1.4887980e-14
1.25um	9.6790971	10.130847	1.4632401e-14	9.6519624e-15
1.65um	10.230420	10.623293	4.0385956e-15	2.8124260e-15
2.22um	10.022064	10.362918	2.3699773e-15	1.7314197e-15
2.50um	9.8260599	10.150282	2.3166142e-15	1.7185609e-15
3.00um	9.2049662	9.5097861	1.9703003e-15	1.4880052e-15
3.55um	8.3970556	8.6922990	2.7355749e-15	2.0842570e-15
4.00um	7.0776486	7.3722780	6.2126507e-15	4.7361470e-15
4.77um	5.7064570	6.0121534	1.3817658e-14	1.0426916e-14

(1) Wavelength (microns)
(2) Point source magnitude (Vega)
(3) Extended source magnitude per square arcsecond (Vega)
(4) Point source line flux (erg per second per square cm)
(5) Extended source line flux (erg per second per square cm per arcsec)