

The ANDES Exposure Time Calculator

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Input parameters

ANDES ETC v5.2

star

Observing Mode: Seeing Limited (SL)

Currently only Seeing Limited mode available

TARGET

Target input: Star

Spectral type: **G1V**

MAGNITUDE / NORMALIZATION

Magnitude band: U

Mag system: Vega

Mag value: 15.0

OBSERVING CONDITIONS

Airmass (1.0-5.5): 1.0

Sky Transparency: CLEAR

Moon phase: 0

INSTRUMENT / EXPOSURE

Seeing: 1.0

Total Exposure Time (s): 80.0

NDIT (n. of sub-exposure): 1

Submit

ANDES ETC v5.2

quasar

Observing Mode: Seeing Limited (SL)

Currently only Seeing Limited mode available

TARGET

Target input: Quasar

Quasar template: **G150_composite**

MAGNITUDE / NORMALIZATION

Magnitude band: U

Mag system: Vega

Mag value: 15.0

OBSERVING CONDITIONS

Airmass (1.0-5.5): 1.0

Seeing (arcsec): 0.8

Sky Transparency: CLEAR

Moon phase: 0

INSTRUMENT / EXPOSURE

Seeing: 1.0

Total Exposure Time (s): 80.0

NDIT (n. of sub-exposure): 1

Submit

ANDES ETC v5.2

power law

Observing Mode: Seeing Limited (SL)

Currently only Seeing Limited mode available

TARGET

Target input: Power law

Power law index: -2.0

MAGNITUDE / NORMALIZATION

Magnitude band: U

Mag system: Vega

Mag value: 15.0

OBSERVING CONDITIONS

Airmass (1.0-5.5): 1.0

Seeing (arcsec): 0.8

Sky Transparency: CLEAR

Moon phase: 0

INSTRUMENT / EXPOSURE

Seeing: 1.0

Total Exposure Time (s): 80.0

NDIT (n. of sub-exposure): 1

Submit

ANDES ETC v5.2

user template

Observing Mode: Seeing Limited (SL)

Currently only Seeing Limited mode available

TARGET

Target input: User Template

Redshift: 3.0

MAGNITUDE / NORMALIZATION

Magnitude band: U

Mag system: Vega

Mag value: 15.0

OBSERVING CONDITIONS

Airmass (1.0-5.5): 1.0

Seeing (arcsec): 0.8

Sky Transparency: CLEAR

Moon phase: 0

INSTRUMENT / EXPOSURE

Seeing: 1.0

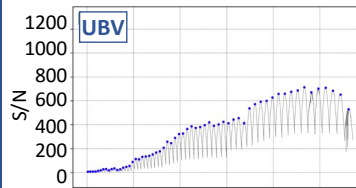
Total Exposure Time (s): 80.0

NDIT (n. of sub-exposure): 1

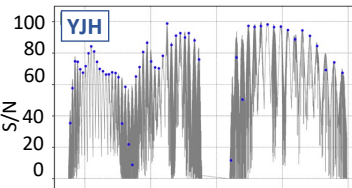
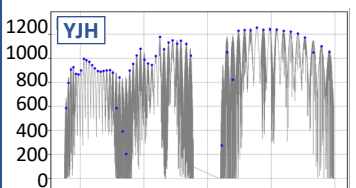
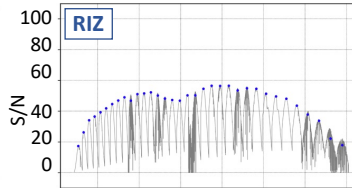
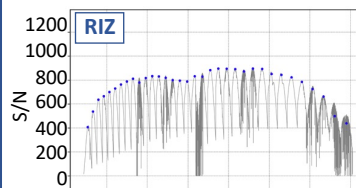
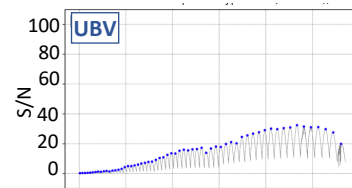
Submit

Results

Star (K2V) V=13 mag Exp=1 hr



Star (G2V) V=17 mag Exp=1 hr



HARPS → S/N~20 in B,
S/N~40 in V&R
NIRPS → S/N~60 in Y,
S/N~80 in J&H

HARPS → S/N~1.5 in B,
S/N~2 in V&R
NIRPS → S/N~2 in Y,
S/N~3 in J&H

<https://andes-etc.brera.inaf.it/>