

Set Parameter

Band ID: "1"

Parameter: Band Center

Valid Range: (0.001, 1e6)

Unit: [GHz]

Description: Band central frequency

Trumps: ['Fractional BW']

Trumped By: None (Required)

File Name: Cam\_1.txt

A channel's band center is used to define its band  $B(\nu)$ , or equivalently its detector efficiency vs frequency. If this parameter is "BAND," then a custom input band is assumed, and the  $\pm$  value can be used to define band-center uncertainty. If this parameter is not "BAND," then a top-hat band is assumed

$$B(\nu) = \begin{cases} 0 & \text{if } \nu < \nu_{lo} \\ \eta_{det} & \text{if } \nu_{lo} \leq \nu \leq \nu_{hi} \\ 0 & \text{if } \nu > \nu_{hi} \end{cases}$$

$$\nu_{lo} = \nu_c \left( 1 - \frac{f_{BW}}{2} \right)$$

$$\nu_{hi} = \nu_c \left( 1 + \frac{f_{BW}}{2} \right),$$

where  $\eta_{det}$  is detector efficiency,  $\nu_c$  is the band center frequency, and  $f_{BW}$  is fractional bandwidth.

FLOAT

PDF

BAND

BAND



Cancel



Save



Hide Description



New



Delete



Edit



View

Figure 4

