









$$T_{sys} = \frac{(1 + G_{im}) \exp \{ \tau_s A \}}{F_{eff}} [F_{eff} T_{atm} (1 - \exp \{ -\tau_s A \}) + (1 - F_{eff}) T_{cab} + T_{rec}],$$





Adrianus

















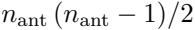




$$\sigma_K = \frac{T_{\text{sys}}}{\sqrt{2} dv \Delta t}.$$



$$\sigma_K = \frac{T_{\rm sys}}{\eta_{\rm spec} \sqrt{2} dv \Delta t}.$$





$$\sigma_K = \frac{T_{\text{sys}}}{\eta_{\text{spec}} \sqrt{n_{\text{ant}} (n_{\text{ant}} - 1)} \, dv \, \Delta t}.$$





$$F = \sqrt{s_d} r \quad \text{with} \quad \sqrt{s_d} = \frac{2k}{A_{\text{eff}}} ;$$







$$\sigma_{J_y} = \frac{J_{\text{ant}}^{\text{sd}} T_{\text{sys}}}{\eta_{\text{spec}} \sqrt{n_{\text{ant}} (n_{\text{ant}} - 1)} dv \Delta t}.$$





and

—

partially

with



$$\text{rotation} = e^{-\frac{\phi^2}{2}}$$

$$\sigma_{Jy} = \frac{j_{\text{ant}}^{\text{int}} T_{\text{sys}}}{\eta_{\text{spec}} \sqrt{n_{\text{ant}} (n_{\text{ant}} - 1)} dv \Delta t}.$$

$$\sigma_{Jy} = \frac{j_{\rm ant}^{\rm int} T_{\rm sys}}{\eta_{\rm spec} \sqrt{n_{\rm ant} (n_{\rm ant} - 1)} dv \Delta t},$$









$$F = j_{\text{ant}} \pi \text{ with } j_{\text{ant}} = \frac{2k\Omega}{\lambda^2}.$$

QPR100

$$j_{\text{ant}}^{\text{int}} = \frac{j_{\text{ant}}^{\text{sd}}}{\eta_{\text{atm}}} = \frac{2k\Omega_{\text{prim}}}{\eta_{\text{atm}}\lambda^2}.$$

QWERTY



$$\nu_{\text{syn}} = \frac{2k\Omega_{\text{syn}}}{\lambda^2} \cdot$$

$$\sigma_K = \frac{\Omega_{\text{prim}}}{\Omega_{\text{syn}}} \frac{1}{\eta_{\text{atm}}} \frac{T_{\text{sys}}}{\eta_{\text{spec}} \sqrt{n_{\text{ant}} (n_{\text{ant}} - 1)} d\nu \Delta t}, = \frac{\theta_{\text{prim}}^2}{\theta_{\text{maj}} \theta_{\text{min}}} \frac{1}{\eta_{\text{atm}}} \frac{T_{\text{sys}}}{\eta_{\text{spec}} \sqrt{n_{\text{ant}} (n_{\text{ant}} - 1)} d\nu \Delta t},$$

Qeios

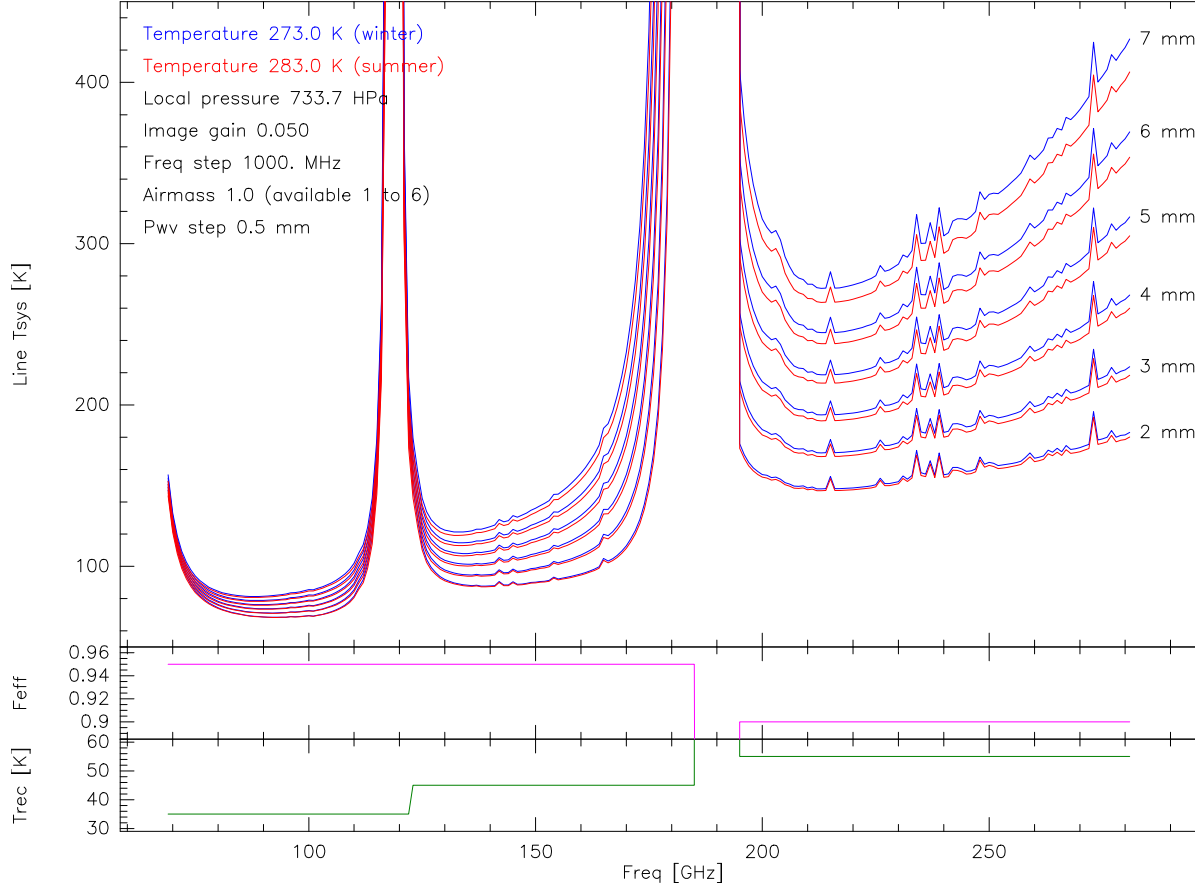
QWERTY

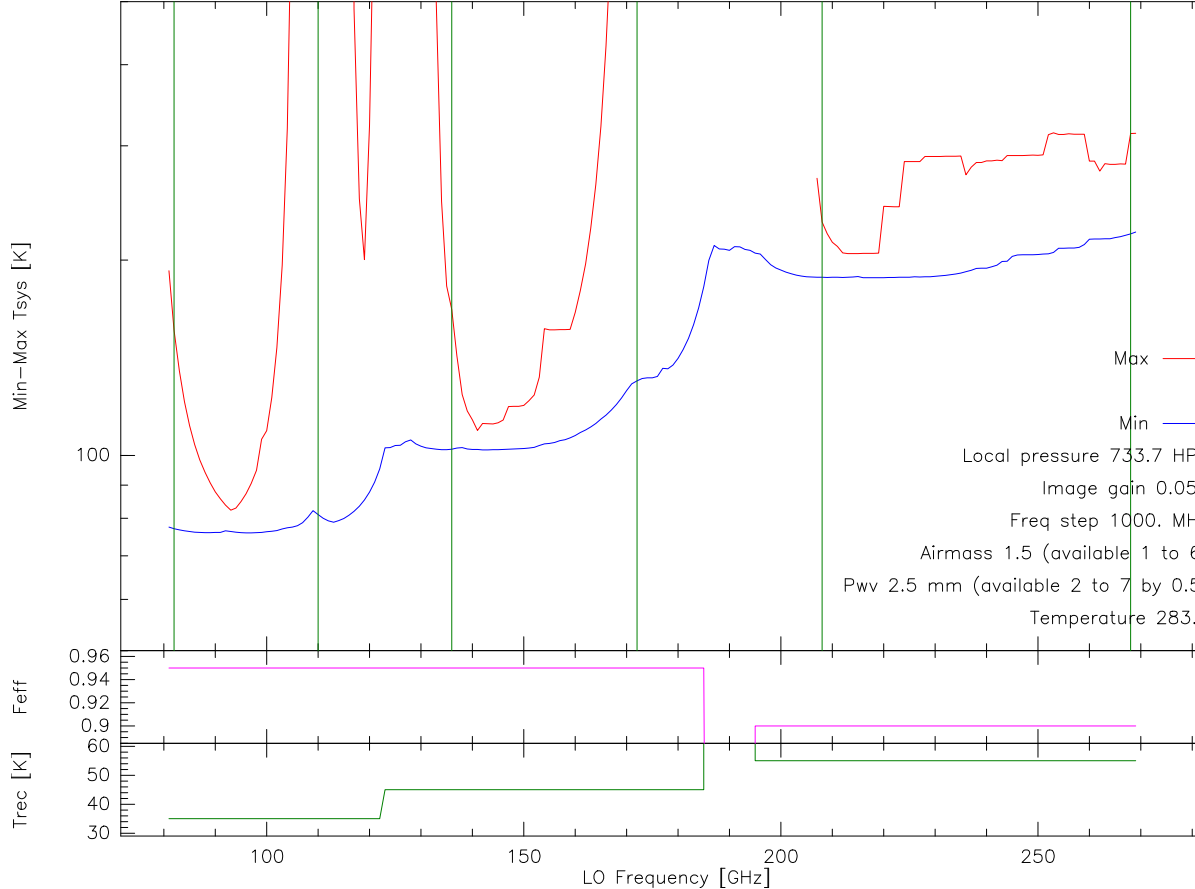


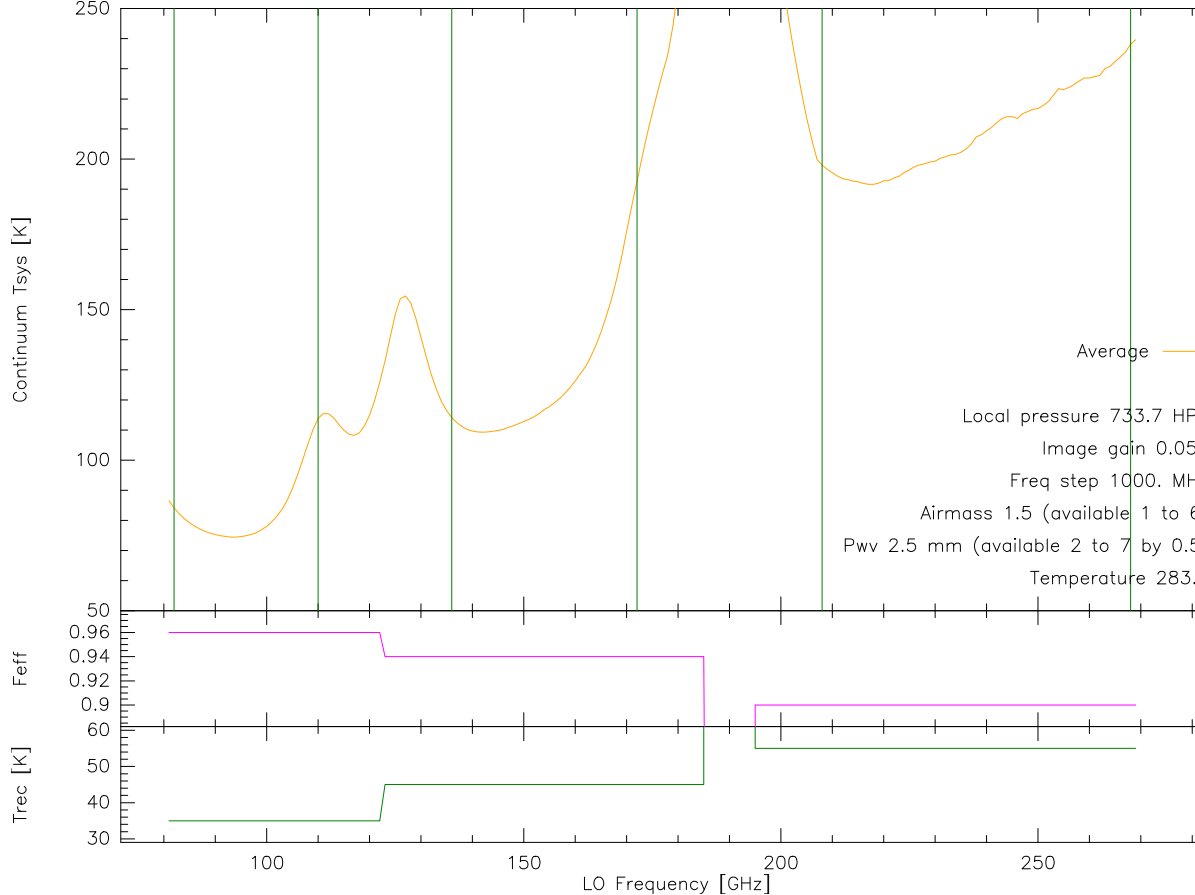


100% 24

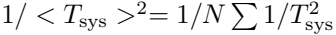
















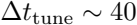
$$\sigma_{Jy} = \frac{j_{\text{ant}}^{\text{int}} T_{\text{sys}}}{\eta_{\text{spec}} \sqrt{n_{\text{ant}} (n_{\text{ant}} - 1)} dv n_{\text{pol}} \Delta t_{\text{on}}} .$$

$$\sigma_{Jy} = \frac{j_{\rm ant}^{\rm int} T_{\rm sys}}{\eta_{\rm spec} \sqrt{n_{\rm ant} (n_{\rm ant} - 1)} dv n_{\rm pol} \Delta t_{\rm on}},$$

$$\sigma_K = \frac{\sigma_{Jy}}{J_{ant}^{syn}} \quad \text{with} \quad J_{ant}^{syn} = \frac{2\pi k \theta_{maj} \theta_{min}}{4 \ln 2 \lambda^2}.$$





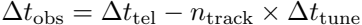








100%



$$\Delta t_{\text{track}} = \frac{\Delta t_{\text{rel}}}{\Delta t_{\text{track}} + \Delta t_{\text{time}}}$$



0.95

A pixelated, grayscale image of the text "1000". The digits are rendered in a blocky, pixelated style with varying shades of gray, giving it a retro, digital appearance. The "1" is a simple vertical bar with a small horizontal base. The "0"s are circular with a thick border. The "00" part of the number is slightly larger and more complex than the first "0". The overall image has a low-resolution, pixelated aesthetic.

— 2019

10000000

A pixelated, black and white graphic of the text "The End of the World". The text is rendered in a jagged, blocky font that resembles a low-resolution digital or pixel art style. The letters are composed of various shades of gray and black pixels, giving it a textured, almost 3D appearance. The words are arranged in a single line, with "The" and "World" being smaller than "End" and "of". The overall effect is reminiscent of a retro video game title screen or a digital glitch effect.



2020-2021

opinion

$$\sigma_{Jy} = \frac{j_{\text{ant}}^{\text{int}} T_{\text{sys}}}{\eta_{\text{spec}} \sqrt{n_{\text{ant}} (n_{\text{ant}} - 1)} dv n_{\text{pol}} \Delta t_{\text{on}}}$$

$$\Delta t_{on} = \frac{\Delta t_{tel} - n_{track} \times \Delta t_{tune}}{n_{tel}}$$



$$\sigma_{Jy} = \frac{j_{\text{ant}}^{\text{int}} T_{\text{sys}}}{\eta_{\text{spec}} \sqrt{n_{\text{ant}} (n_{\text{ant}} - 1)} dv n_{\text{pol}} \Delta t_{\text{on}}}$$

with

$$\Delta t_{\text{on}} = \frac{\Delta t_{\text{tel}} - n_{\text{track}} \times \Delta t_{\text{tune}}}{n_{\text{tel}} \times n_{\text{sou}}}$$

A pixelated, grayscale image of the word "Amp" in a stylized, blocky font. The letters are composed of various shades of gray and black pixels, giving it a retro, digital appearance. The 'A' is on the left, followed by 'm', 'p', and 'p'. The image is set against a plain white background.



$$n_{\text{beam}} = \frac{A_{\text{map}}}{A_{\text{beam}}}$$

1990



$$A_{\text{beam}} = \frac{0.8 \pi \theta_{\text{prim}}^2}{4 \ln(2)} ,$$



$$\sigma_{Jy} = \frac{j_{\text{ant}}^{\text{int}} T_{\text{sys}}}{\eta_{\text{spec}} \sqrt{n_{\text{ant}} (n_{\text{ant}} - 1)} dv n_{\text{pol}} \Delta t_{\text{on}}}$$

with

$$\Delta t_{\text{on}} = \frac{\Delta t_{\text{tel}} - n_{\text{track}} \times \Delta t_{\text{tune}}}{n_{\text{tel}} \times n_{\text{beam}}}$$



$$n_{\text{point}} = n_{\text{beam}} \left(\frac{7}{4} \right)^2,$$

$$\Delta t_{\text{on}} = \frac{\Delta t_{\text{tel}} - n_{\text{tracks}} \times \Delta t_{\text{tune}}}{\eta_{\text{tel}} \eta_{\text{mos}} \times n_{\text{beam}}} \quad \text{with} \quad \eta_{\text{mos}} = \frac{\Delta t + \Delta t_{\text{slew}}}{\Delta t},$$



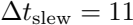
$$\frac{\Delta t}{1s} < < \frac{6900}{\theta_{alias}/\theta_{syn}},$$

Q112

QWID

$$\Delta t_{\min} \leq \frac{1}{\eta} \frac{6900}{1 \text{ sec}} \sqrt{\frac{\theta_{\text{maj}} \theta_{\text{min}}}{A_{\text{map}}}},$$





1234567890

Apple

$$n_{\text{point}/\text{track}}^{\text{max}} = \frac{\Delta t_{\text{cycle}}}{\Delta t_{\text{min}} + \Delta t_{\text{slew}}} = 130.$$

$$n_{\text{point}/\text{track}} = \left(\frac{7}{4}\right)^2 \frac{n_{\text{beam}}}{n_{\text{track}}}.$$

POINT-TO-POINT

$$\sigma_{Jy} = \frac{j_{\text{ant}}^{\text{int}} T_{\text{sys}}}{\eta_{\text{spec}} \sqrt{n_{\text{ant}} (n_{\text{ant}} - 1)} dv n_{\text{pol}} \Delta t_{\text{on}}}$$

with $\Delta t_{\text{on}} = \frac{\Delta t_{\text{tel}} - n_{\text{tracks}} \times \Delta t_{\text{tune}}}{n_{\text{tel}} n_{\text{mos}} n_{\text{beam}}}$



Wiederholung

Wiederholung



$$\Omega = \frac{1}{\eta_{\text{tel}}}.$$

0-0gen+0gen0gen

Quesada = 12

Waniwa! = 02

video editing = 1

2021-2022

$$\Omega_{\text{total}} = 1 - \frac{\Delta t_{\text{on}}}{\Delta t_{\text{tel}}}$$



$$\Omega_{\text{total}} = 1 - \frac{\Delta t_{\text{on}} \times r_f}{\Delta t_{\text{tel}} \times r_f}$$