



# Erratum: “The Simons Observatory Large Aperture Telescope Receiver” (2021, ApJS, 256, 23)

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## 1. Erratum

After the publication of the article, it was brought to our attention that the description of Equation (1) may cause potential confusion. Thus, we have decided to provide a newer reference and added a unit for  $q_{\text{tot}}$  in the description. The updated paragraph should read as the following:

The thermal conduction due to radiation on surfaces covered in MLI was computed using the Lockheed equation (Ross 2015):

$$q_{\text{tot}} = \frac{C_c N^{2.56} T_m}{n} (T_h - T_c) + \frac{C_r \epsilon_0}{n} (T_h^{4.67} - T_c^{4.67}), \quad (1)$$

which accounts for both the conductive loading through the layers of the blanket (first term), and the radiative loading between layers of the MLI blanket (second term). In Equation (1),  $q_{\text{tot}}$  is the total thermal load on the MLI in units

of  $\text{mW m}^{-2}$ ,  $C_c = 8.95 \times 10^{-5}$  is a numerical constant defining the MLI conductive heat transfer,  $N$  is the MLI layer density in layers per centimeter,  $T_m$  is the mean MLI temperature, taken to be  $T_m = \frac{T_h - T_c}{2}$ ,  $n$  is the number of MLI layers,  $T_h$  is the hot-side temperature in kelvin,  $T_c$  is the cold-side temperature in kelvin,  $C_r = 5.39 \times 10^{-7}$  is a numerical constant defining the MLI radiative heat transfer, and  $\epsilon_0 = 0.031$  is the MLI emissivity (Ross 2015).

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