

# Clog Doc: pcoeff1.0.tex

## Momentum Deposition in Clog

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Research Notes

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## Momentum Deposition in Clog

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### Abstract

Physics documentation for the BPS stopping power in the code Clog.

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## I. THE BPS THE MOMENTUM TRANSFER

BPS (4.23):

$$v^k \frac{dP_b^k}{dt} = \frac{dE_b}{dt} + \frac{1}{m} C_b^{\ell\ell} , \quad (1.1)$$

or

$$\hat{v}^k \frac{dP_b^k}{dx} = \frac{1}{v} \frac{dE_b}{dx} + \frac{1}{mv^2} C_b^{\ell\ell} . \quad (1.2)$$