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Subject: Re: how to convert kinematic variables from lab frame to cm frame in root

Posted by [Stefano Spataro](#) on Tue, 25 Jun 2013 08:20:04 GMT

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No, it is not correct.

First of all, you have to calculate the  $\beta_{cm}$  from the initial particles (the target proton at rest and the projectile antiproton), and not from the supposed reconstructed lambdas.

Second, if your CM is traveling at  $\beta_{cm}$ , in order to have the coordinates in the CM frame you have to boost them of  $-\beta_{cm}$ .

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