

At the beginning of Code - Outside the Event Loop

```
# include "BEC4.h"

float *temp_run = new float();
*temp_run = 1.0;
float *temp_ecorr = new float();
*temp_ecorr = 1.0;
```

.....  
.....

Enter the Event Looping

```
FRUN = Current_Run_Number;
FIn_BeamE = Incoming_Beam.E();

if ( *temp_run != FRUN )
{
    *temp_run = FRUN;
    *temp_ecorr = Get_ECorr_Factor(FRUN);
    //cout << "nE_Corr : RUN :: " << *temp_ecorr << " : " << *temp_run << endl;
}

nE_Corr = *temp_ecorr;
//cout << "nE_Corr : RUN :: " << nE_Corr << " : " << FRUN << endl;

nBEC_beamE = FIn_BeamE * nE_Corr; // New Corrected Beam Energy

// New_Beam = New beam 4-vector after BEC
// New_MM = New Missing Mass because of the New beam
// P4vector[0,1,2] are the original detected particle 4-vectors which dont change
// For example, in my case 0=proton, 1=Kplus, 2=Kminus

New_Beam.SetXYZT(0.0,0.0,nBEC_beamE,nBEC_beamE); // New Beam 4-Vector
New_MM=New_Beam+target4v-P4vector[1]-P4vector[2]-P4vector[0]; // new Missing Mass

....
```