

# Update on GeNIALE

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Meeting explorer 19/12/2017

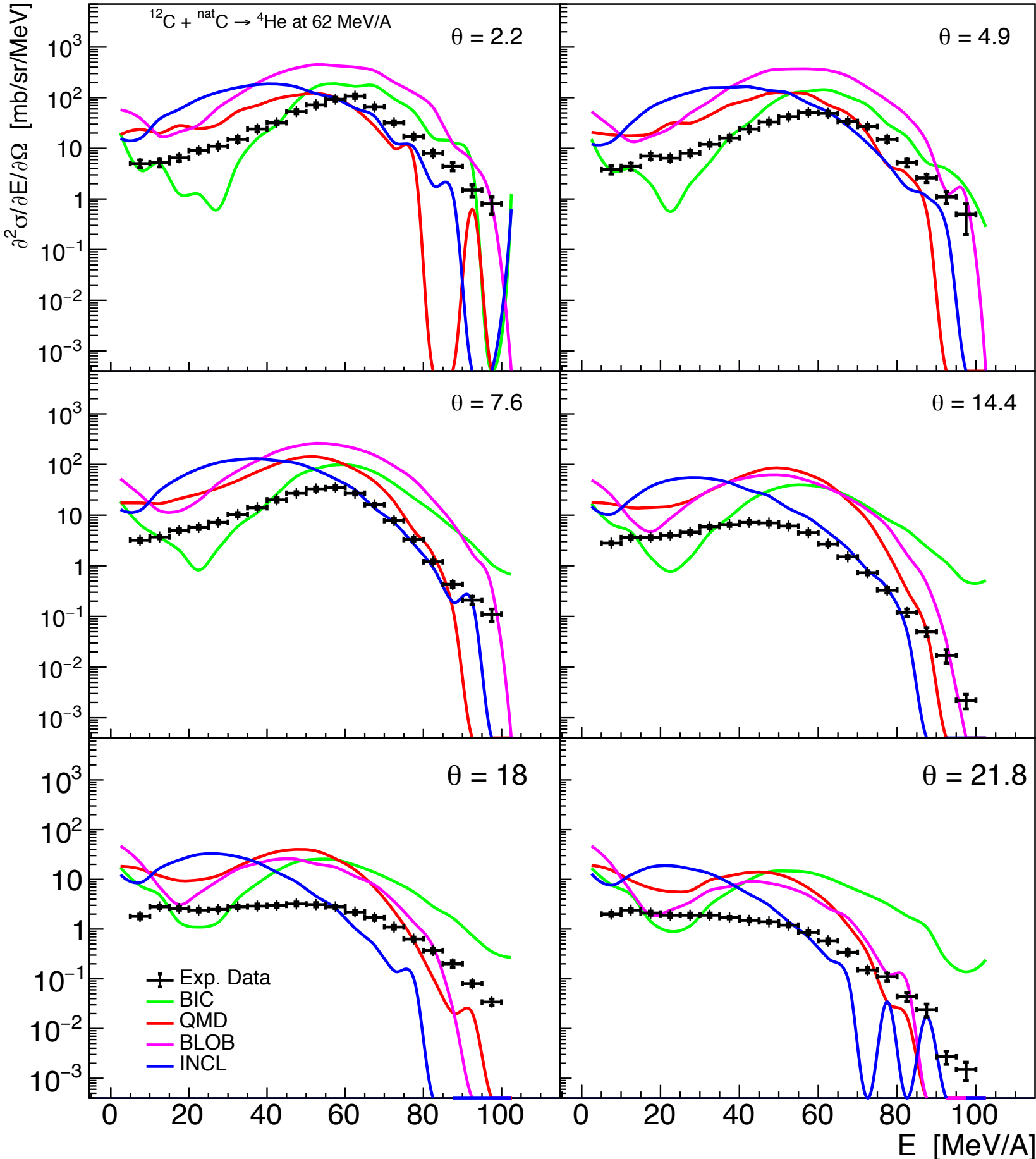
# BLOB+Geant4

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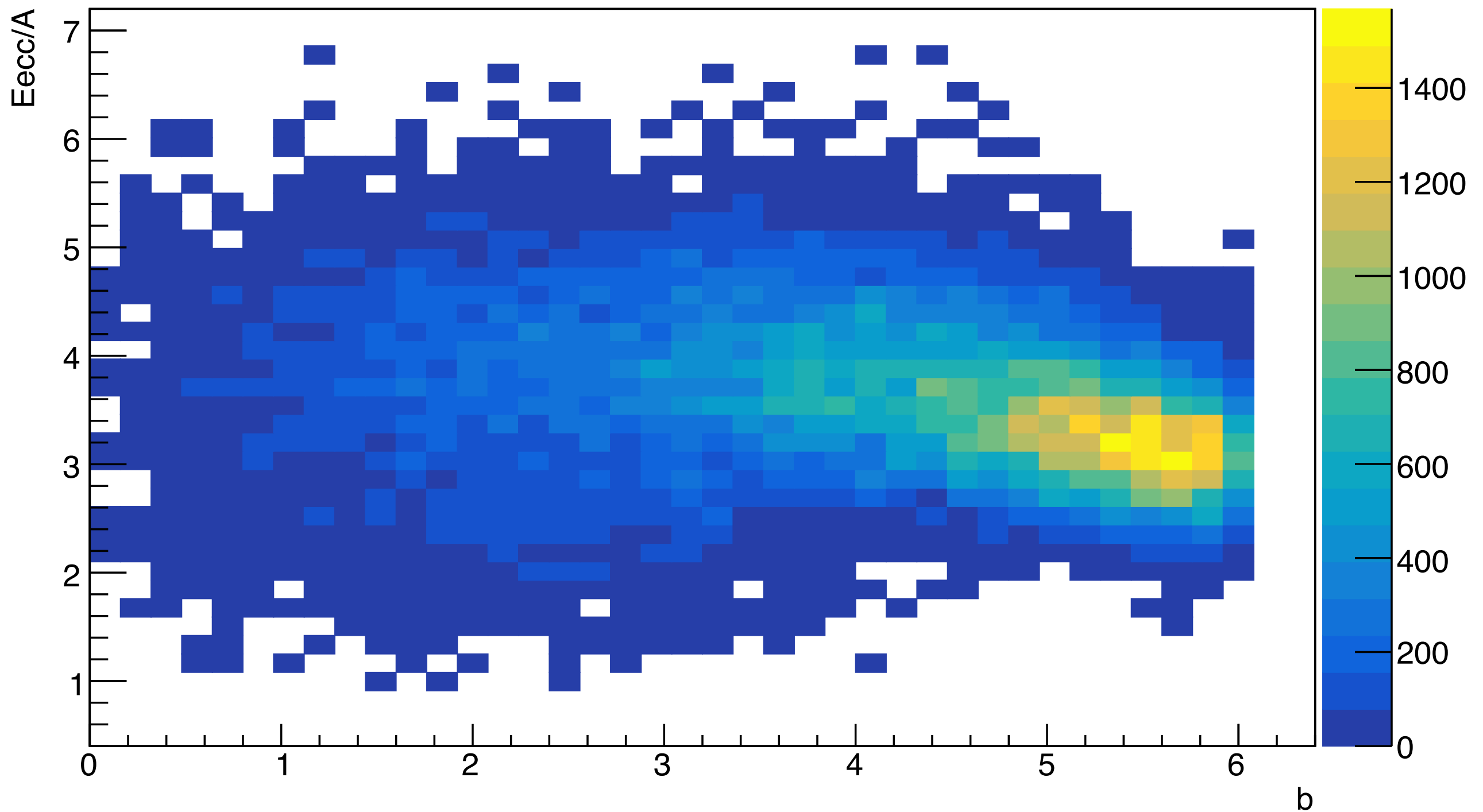
- I coupled BLOB with the de-excitation phase of Geant4 developing a dummy Geant4 model
- The coupling works fine
- The model needs tuning
- Fragments produced in peripheral interaction are too hot

double differential  
cross section  
of He4 production

comparison with  
the G4 models



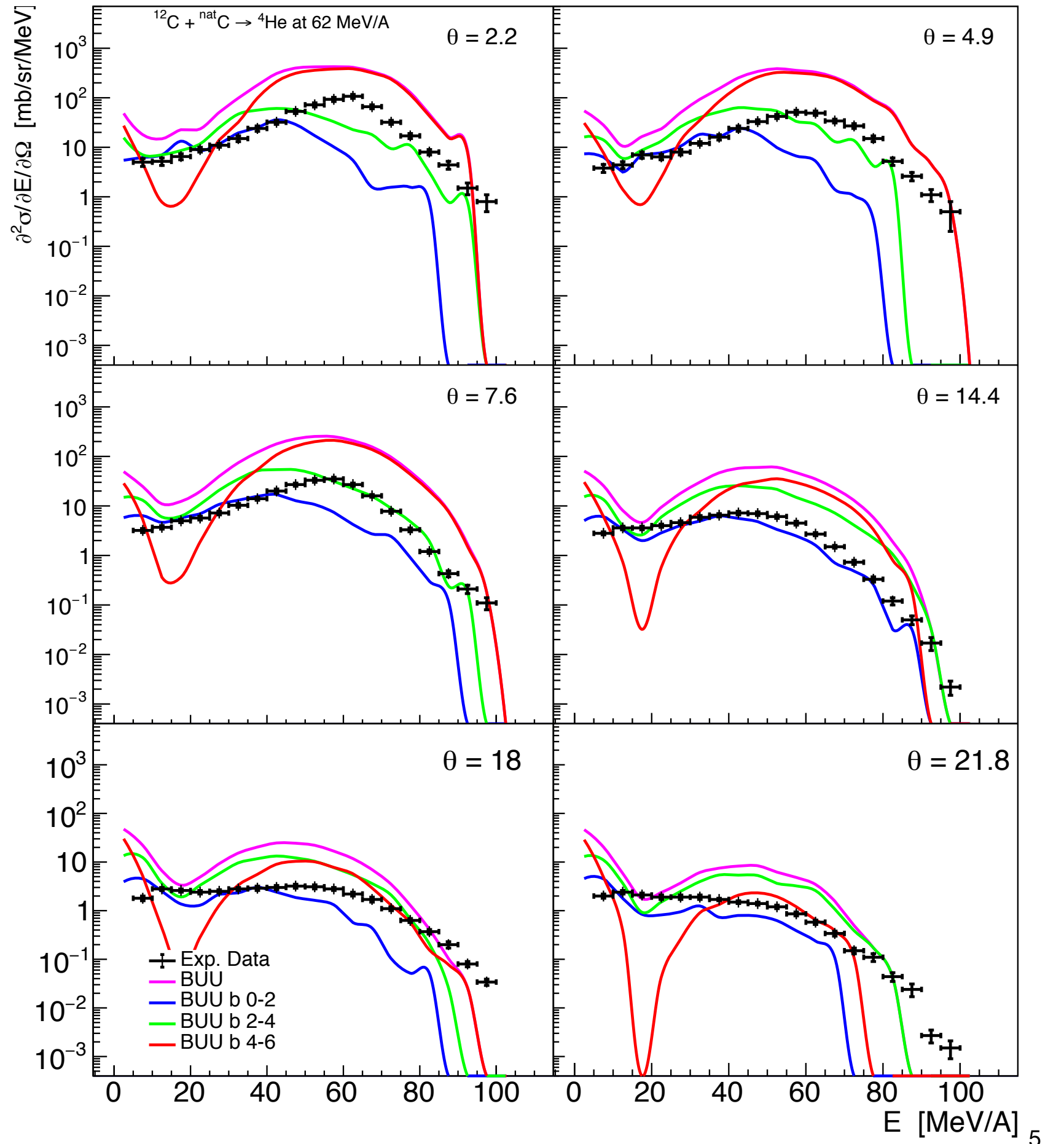
$E_{ecc}/A:b \{A>1\}$



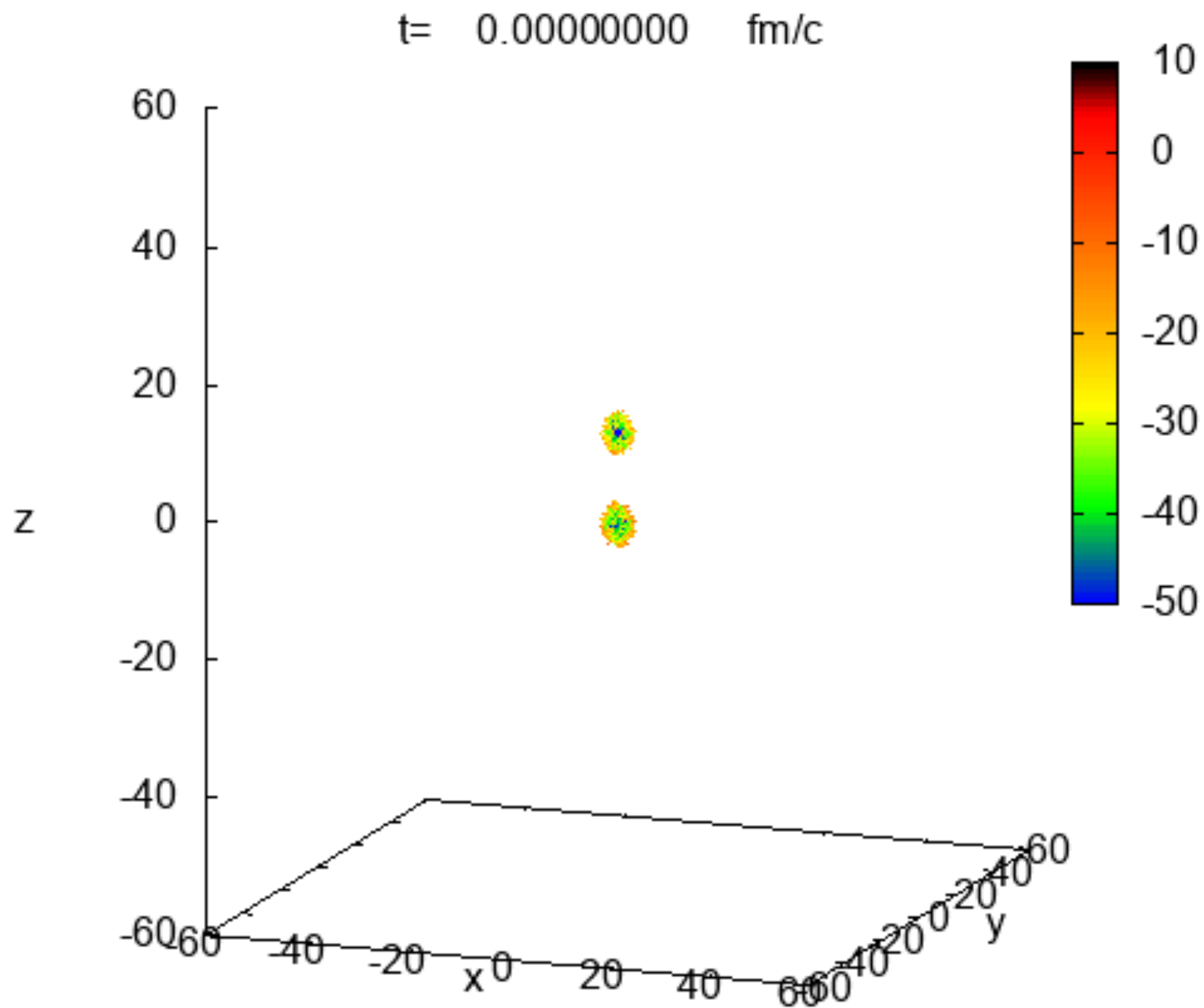
Excitation energy of the hot fragments as a function of the impact parameter

double differential  
cross section  
of He4 production

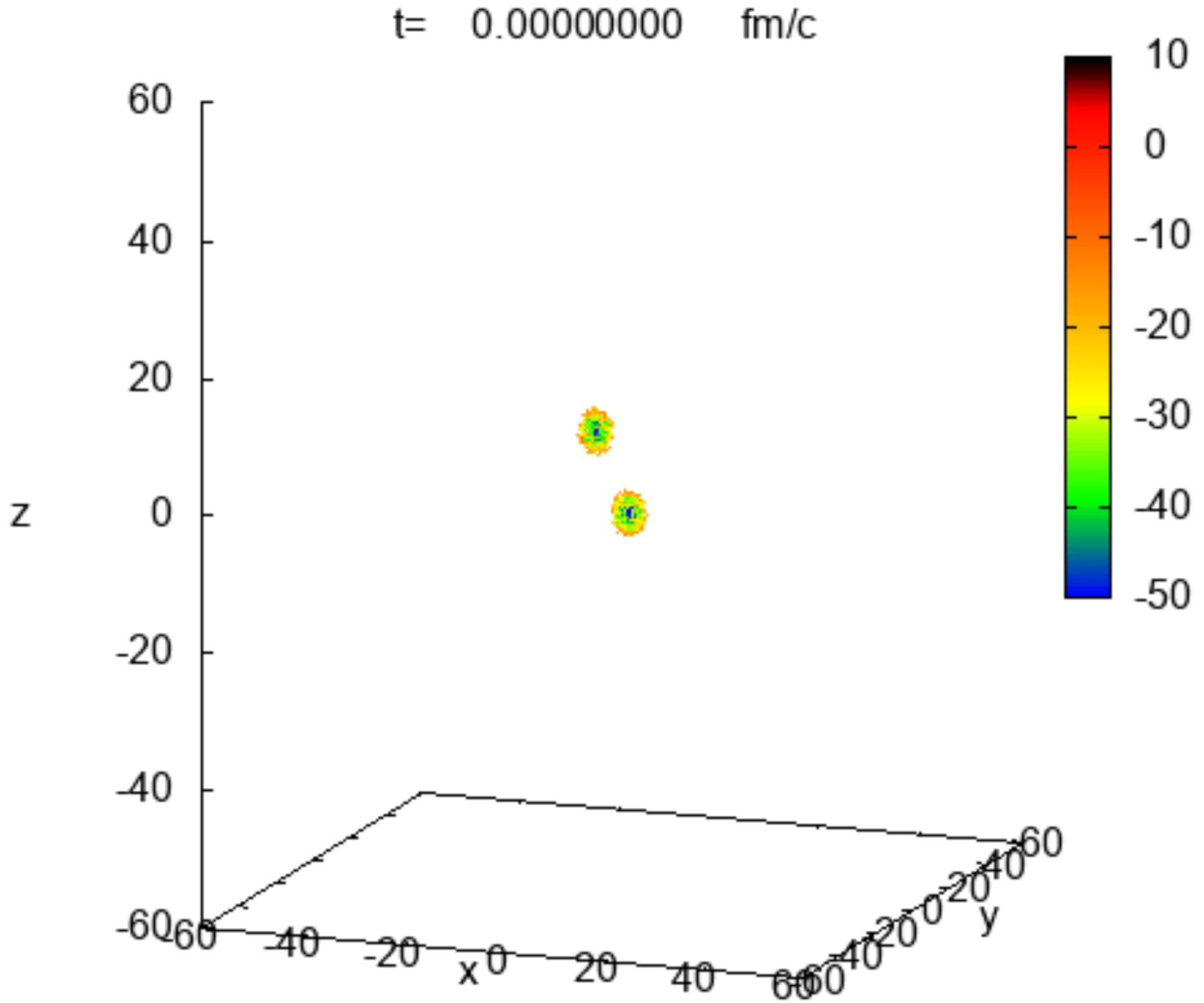
contribution from  
the different impact  
parameters



b=0

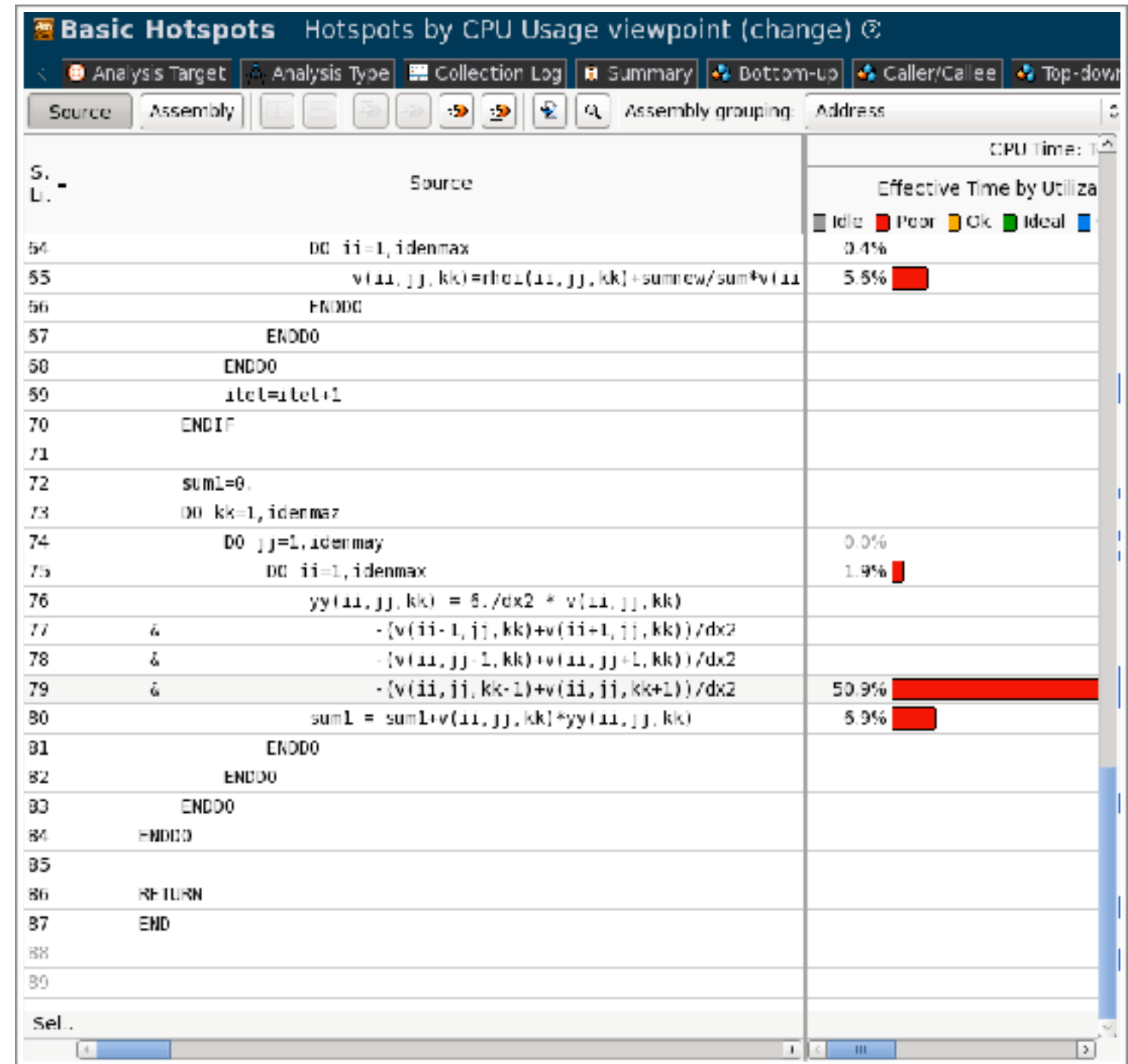


b=7



# BLOB profiling

- Using an Intel profiler I have found that more than 50% of the time is spent in a loop calculating the laplacian of the mean field potential





# Microsoft Azure sponsorship

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- GeNIALE has been awarded by Microsoft for a Microsoft Azure Research Award
- Up to 20'000\$ in computing resources on the Azure cloud
- <http://azure.microsoft.com>
- <http://azure4research.com>
- I have to “dockerize” BLOB



# Aggiornamento storage Farm

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Meeting explorer 19/12/2017

# Nuovo storage

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- /superb -> /chirone
- Root, Geant4, gcc 6.2 (con gfortran), xerces, binutils, Qt e le librerie python sono state spostate in /chirone/soft/
- fluka e' da reinstallare
- i dati sono stati spostati ma...  
cp: cannot open `dataColl/Merda/CicciaWorld/...' for reading: Permission denied  
cp: cannot open `dataSenz/BTF/...' for reading: Permission denied