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Monte Carlo system

- XiO eMC module is based on the early

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simulates electron (or

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through voxelized

media • The beam

model and electron

air scatter functions

were developed by

CMS • The user can

specify – voxel size

– dose-to-medium or

dose-to-water –

random seed

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treatment planning  
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Thus far, Monte Carlo  
electron beam  
simulations have  
been described either  
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collision free in  
vacuum), or  
exclusively in solids -  
or gases (plasmas) -  
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Enrico Fermi and

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who developed in

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heuristic-like and

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algorithm (a.k.a.

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interaction and can  
be used to generate  
many of the recorded  
signals (X-rays and  
backscattered  
electrons) in a  
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to study the  
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1000 eV electrons

in an atmosphere of

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for two basic types of  
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simulation are  
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program capable of  
high accuracy but  
requiring long  
computation times,  
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Carlo until it comes to rest  
or exits the sample.

To simulate a beam,  
the process is  
repeated for a large  
number of electrons.

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