SHiP Joint physics and detector meeting - vacuum vessel workshop Updates on photon transport simulation

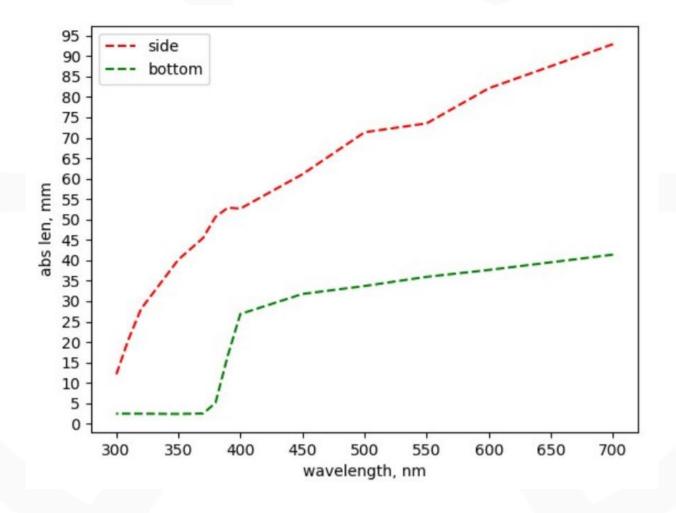
Vladyslav Orlov

Taras Shevchenko national university of Kyiv, Ukraine

Absorption length study

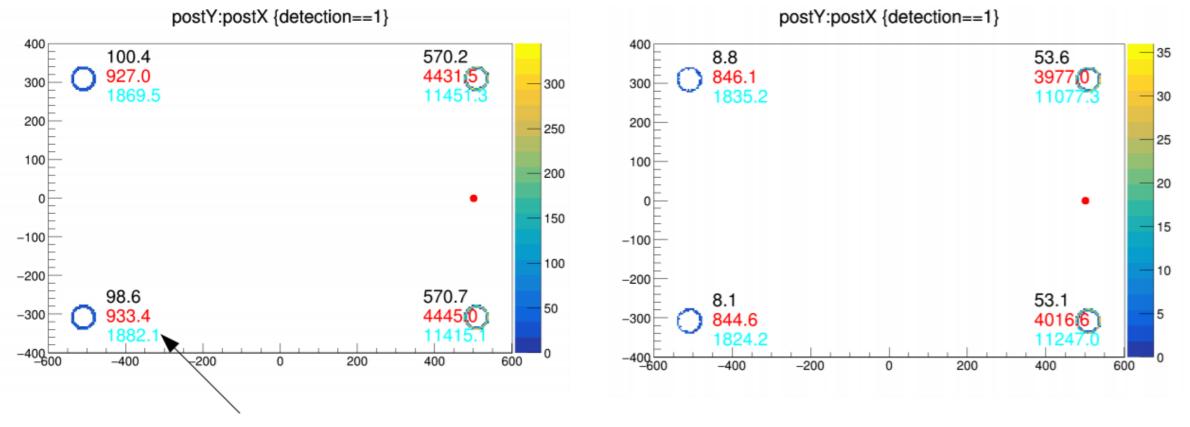


Implementation of the absorption length for PMMA



by Andrii Kotenko

Comparison for 1 GeV muons

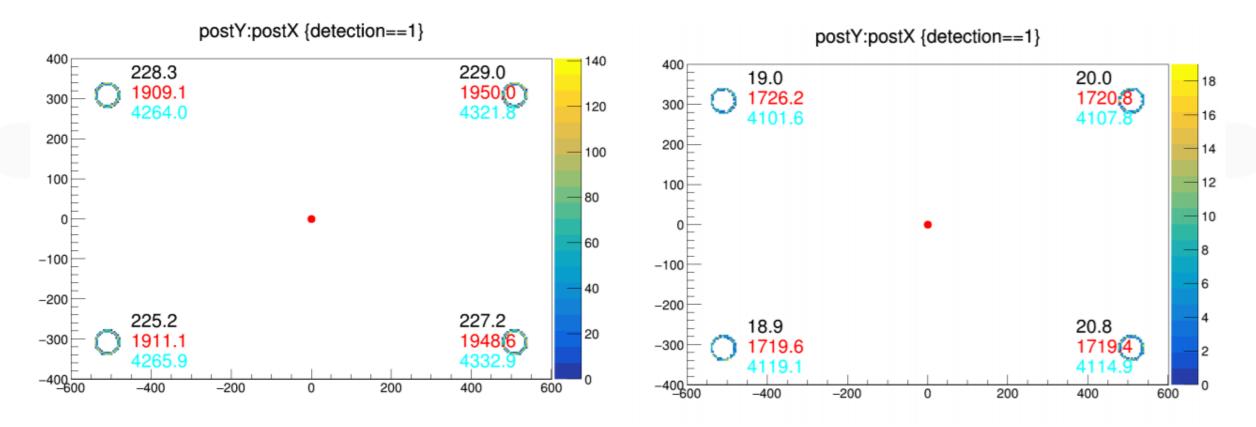


(1) detected, (2) fallen on WOM(3), fallen on PMMA vessel

by Andrii Kotenko

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Comparison for 1 GeV muons

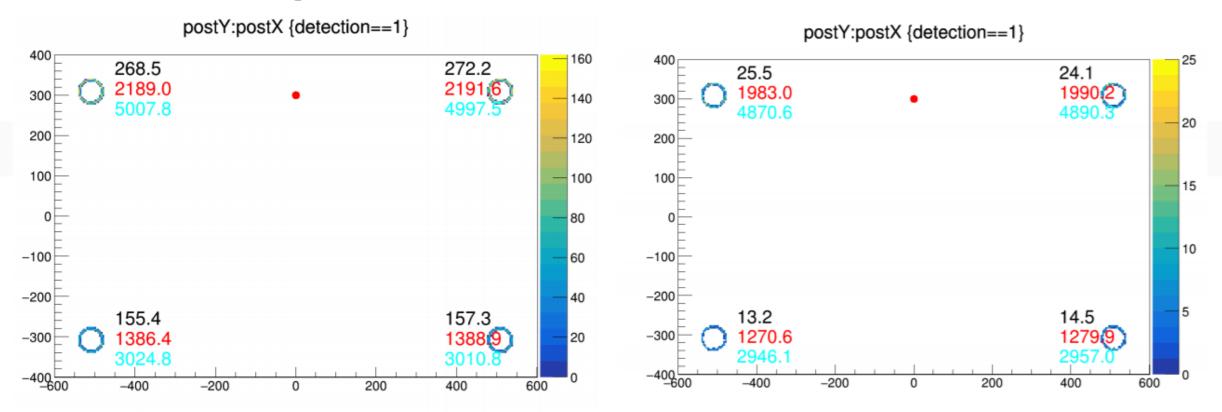


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Comparison for 1 GeV muons



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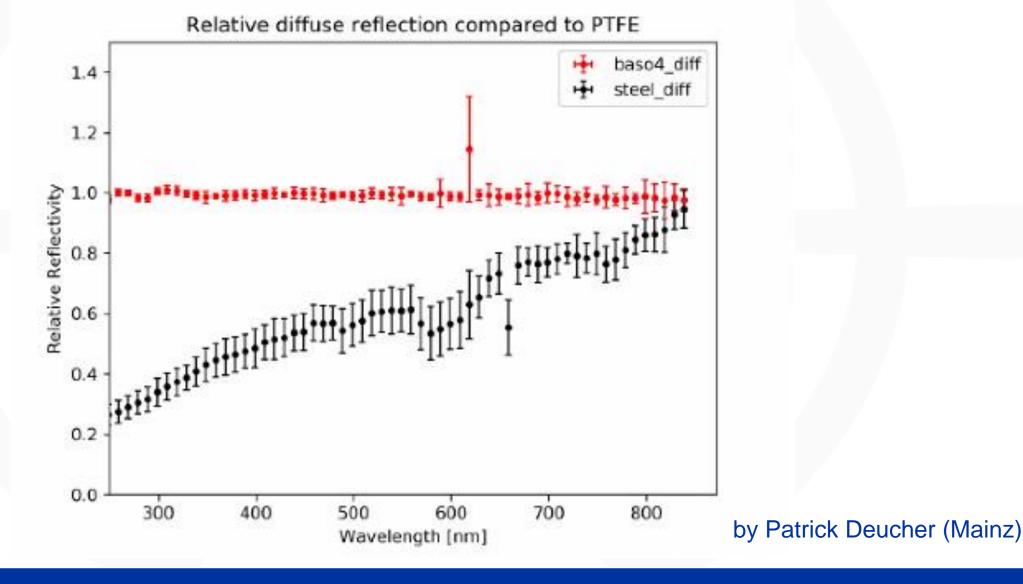
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Reflectivity of the coating

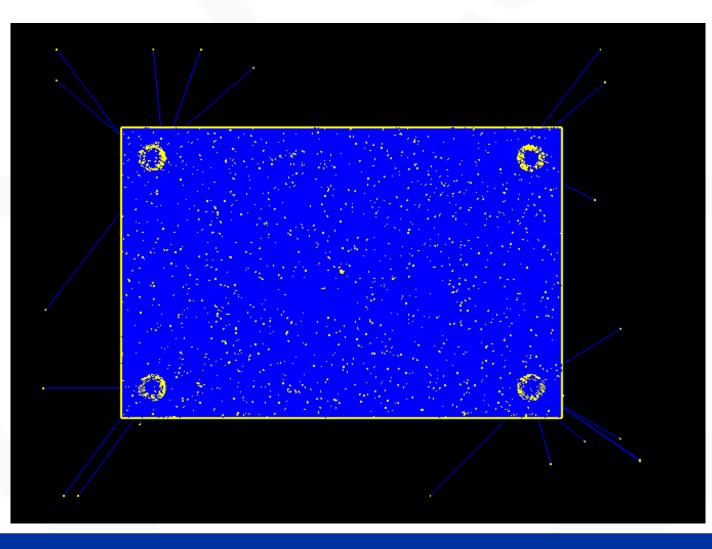


Implemented reflectivity of BaSO₄ coating



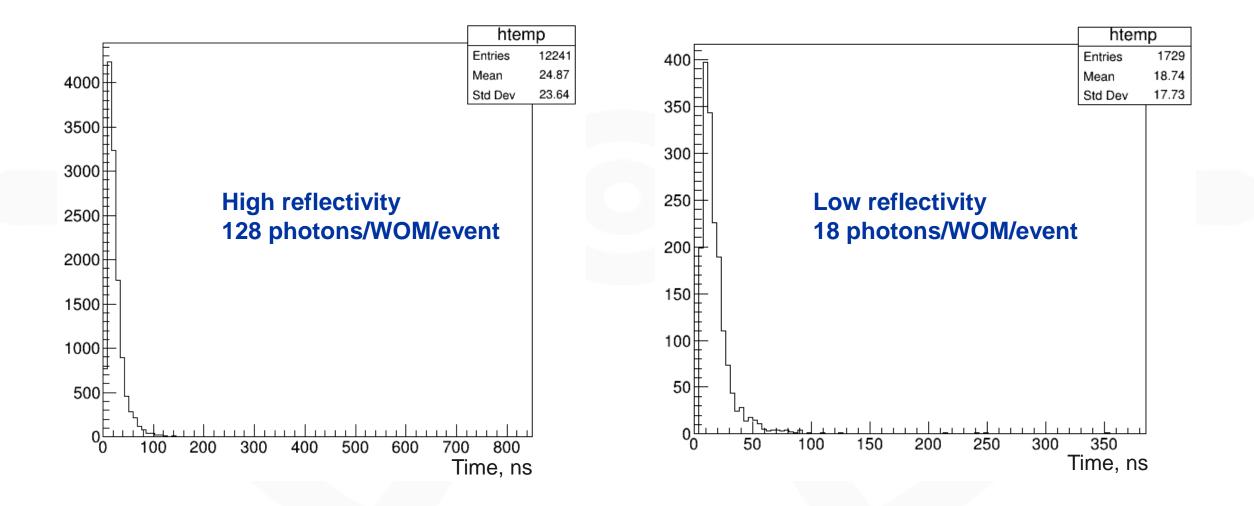
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Simulation with 4 WOM tubes at the corners



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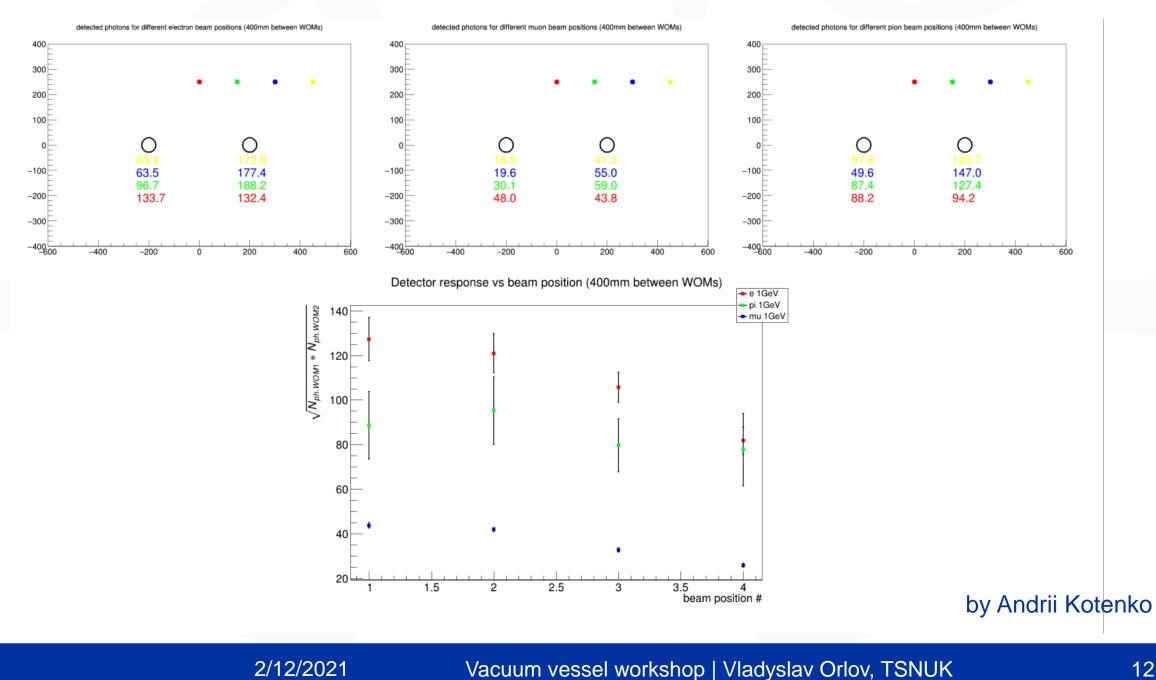
1 GeV μ^+ hitting at the center



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Geometry optimization for 2 WOMs





Thank you!

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