AccelOrator



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The Newsletter for Particle Beam Optics Software

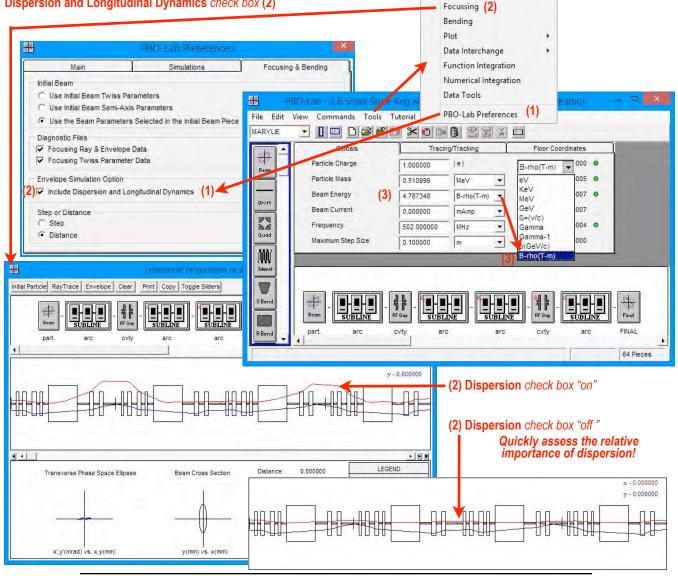
September 2015



PBO Lab™ 3.1 Shipping Now!

The Next Generation of Charged Particle Optics Software

- PBO Lab 3.1 Basic Package New Capabilities:
- PBO-Lab Preference option to Include Dispersion and Longitudinal Dynamics in the Focusing Tool Envelopes (1).
- Dispersion can be turned on or off using the Include Dispersion and Longitudinal Dynamics check box (2)
- Magnetic rigidity B-rho(T-m) added as a new "smart unit" selection option for the Beam Energy (3)
- PBO Lab 3.1 also includes Focusing and Bending Tool support for the Prism Piece (electrostatic deflector) as well as many other features not illustrated here.



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PBO Lab 3.1 Has New Application Module Features TRANSPORT and TRACE 3-D Modules Have Enhanced Capabilities



Ø PMQ

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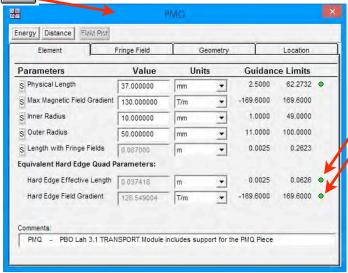
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Einzel1

1 000 1

Einzel2

PMQ Piece Support added to TRANSPORT Module

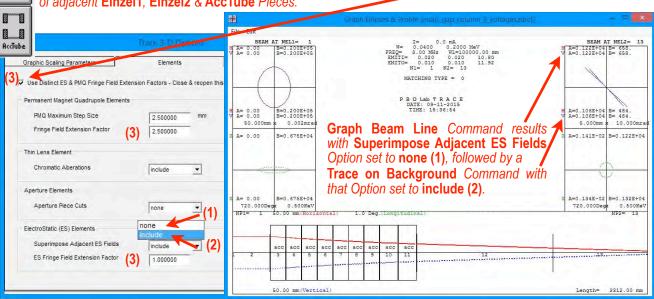


- The Permanent Magnet Quadrupole (PMQ) Piece is an optics element originally developed for the TRACE 3-D and MARYLIE Modules which includes fringe fields.
- New Equivalent Hard Edge Quad Parameters added to PMQ Piece for modeling with TRANSPORT Module:
 Hard Edge Effective Length
 Hard Edge Field Gradient
- New Equivalent Hard Edge Quad Parameters computed from data input on Fringe Field tab page
- Equivalent Hard Edge Quad Parameters together with the Physical Length parameter used to define equivalent length quadruple for TRANSPORT modeling.

New TRACE 3-D Module Options added for Adjacent Element Fringe Field Superposition in ElectroStatic (ES) Palette Module

• TRACE 3-D Elements tab Option for excluding (1) or including (2) overlapping electrostatic fields of adjacent Einzel1, Einzel2 & AccTube Pieces.

• Another new option (3) can be used to assign different Fringe Field Extension Factors for ES and PMQ Pieces.



For current products and other information contact AccelSoft:

www.ghga.com/accelsoft - or - www.accelsoft.us

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