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Title

BEAM PROFILE AT MTA OUTPUT

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| SUBJECT BEAM PROFILE AT MTA OUTPUT | JOB NUMBER 305-10 | FILE NO. M1 | PAGE 1 |
| | NAME W.K.H. Panofsky | | |
| DATE June 14, 1960 | | | |

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Clearly any calculations presented here can only be an estimate since the input distribution is not known. The attached curve is calculated on the following assumptions:

1. The input distribution is uniform over the entrance aperture.
2. The beam does not have angular momentum.
3. The phases of the radial oscillations are random.

Values are plotted as ratio of density to the density if the beam had uniform distribution over the area.

The singularity shown will be limited by misalignment and space charge. This calculation is highly simplified and is to serve only as an indication of the type of effect to be expected.

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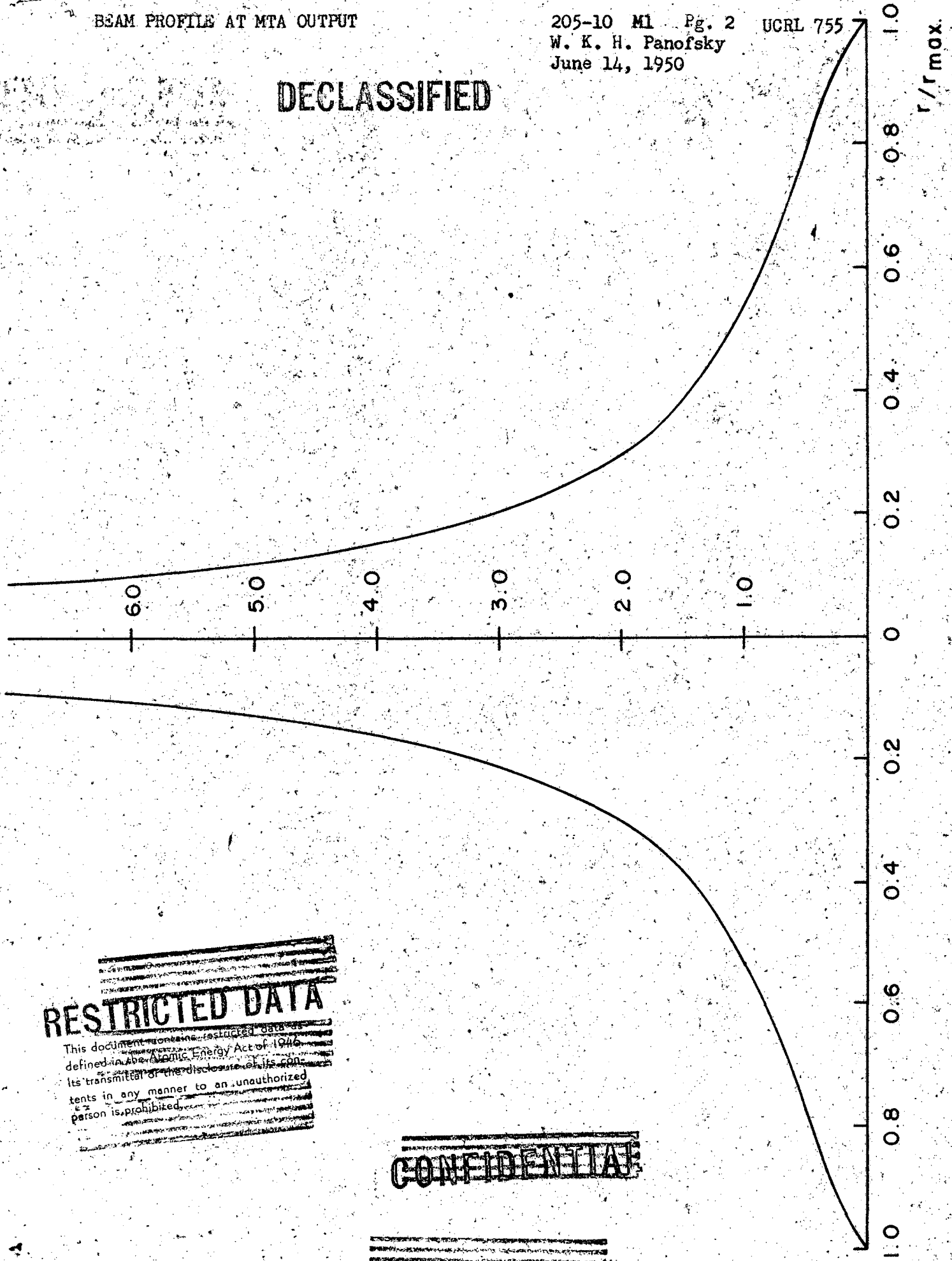
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DENSITY / AVERAGE DENSITY



r/r_max

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