Potentialtheoretische Druckverteilungen
an einigen drehsymmetrischen Halbkörpern.

Nach Rechnungen von Dipl.-phys. K. Hasselmann
(Okt. 1955)

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Bezeichnungen.

unendlich langer Kreiszyliner
halbes Rotationsellipsoid
Achsenverhältnis
r/a = 1:2, 1:3, 1:4, 1:6 und 1:8

\[ P = \text{statischer Druck am Körper, bzw. auf der Achse (für } x > a) \]

\[ U = \text{Geschwindigkeit} \]

\[ q = \frac{1}{2} U^2 = \text{Staudruck der Anströmung} \]

\[ x, y = \text{Koordinaten der Körperkontur:} \]

\[ \begin{align*}
    & \text{für } x < 0 \quad y = r \\
    & \text{für } x > 0 \quad \frac{x^2}{a^2} + \frac{y^2}{r^2} = 1
\end{align*} \]

Die Kontrolle \( \int_0^1 P/q \cdot y/r \cdot d (x/a) = 0 \) wurde graphisch durchgeführt.
<table>
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<th>( \frac{x}{d} )</th>
<th>( \frac{y}{r} )</th>
<th>( \frac{P}{q} )</th>
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