ERRATA IN DOCTORAL THESIS

The seedgas result in Figure 14 (p. 49) is corrected to account for a variation of the pitchwise pressure variation on the hub. This is done according to Eq 7-4 by Teuber et al. [42].

\[ \frac{\Phi_{0\text{min,ref}}}{\Phi_{0\text{min}}} = \sqrt{\frac{Cp_{\theta,ref}}{Cp_{\theta}}} \quad 7-4 \]

For increasing \( v_{\text{ts}} \) the resulting \( \Phi_{0\text{min,Seedgas}} \) decreases with the operating speed as the main contributor to the variation.

\[ \begin{align*}
\Phi_{0\text{Elmin} \pi 1.23} & \\
\Phi_{0\text{Elmin} \pi 2.06} & \\
\Phi_{0\text{RImin} \pi 1.23} & \\
\Phi_{0\text{RImin} \pi 2.06} & \\
\text{Test} & \\
\Phi_{0\text{min,Seedgas}} &
\end{align*} \]

Figure 14: Variation of minimum required purge rate in terms of \( \Phi_0 \) to suppress ingestion based on Eq. 7-2 and 7-3 across the operating speed range in terms of \( v_{\text{ts}} \) and for two pressure ratios \( \pi \), compared to seedgas results and tested purge rates