Results versus PMS/NNA Predictions

$$
\begin{aligned}
& \Pi_2^{[2]} = 1 + \frac{7}{3} \\
+ \quad & ()^2\,(23.5094 - 1.30879 n_f) \\
+ \quad & ()^3\,(0.464663 n_f^2 - 32.0843 n_f + \ldots)
\end{aligned}
$$

$$d_2^{[1]4}(\text{PMS}) = 0.7 n_f^2 - 33 n_f + 294$$

$$d_2^{[1]4}(\text{NNA}) = 0.464663 n_f^2 - 15.33 n_f + 127$$

What we have learned from above (if any):

- **FAC/PMS estimations in total work somewhat "better" than NNA; would be of great interest to see what happens for full results**
- **Assuming PMS /partially validated by our calculations/ we have tried to perform a new extraction of α_s and m_s from τ decay with $\mathcal{O}(\alpha_s^4)$ accuracy. The results of our analysis are encouraging for α_s determination. On the other hand, the PT series for m_s^2 part seems to be really out of control..**