



The poster for HADRONs 2025 Porto Alegre features a dark blue background with a stylized illustration of a particle detector and a cityscape at night. The title 'HADRONs' is in large yellow letters, followed by '2025 Porto Alegre' in white. Below this, it says 'XVI International Workshop on Hadron Physics' and '10-14 Mar | Centro Cultural da UFRGS'. A list of invited speakers includes Kenji Fukushima, Chun Shen, Lisheng Geng, and Fernanda Steffens. It also lists the National and Organizing Committees and provides registration information.

HADRONs
2025 Porto Alegre

• • • XVI International Workshop on Hadron Physics
10-14 Mar | Centro Cultural da UFRGS

Invited speakers

Kenji Fukushima
The University of Tokyo

Chun Shen
Wayne State University

Lisheng Geng
Beihang University

Fernanda Steffens
University of Bonn

National Committee

- Kanchan Khemchandani (UNIFESP)
- Jun Takahashi (UNICAMP)
- Leticia Palhares (UERJ)
- Luciano Abreu (UFBA)
- Ricardo Sonogo Farias (UFSM)
- Victor Gonçalves (UFPeI)
- Tiago Nunes (UFSC)

Organizing Committee

- Victor Gonçalves (UFPeI) - Chair
- Gustavo Gil da Silveira (UFRGS)
- Magno Machado (UFRGS)
- Ricardo Sonogo Farias (UFSM)

Registrations open from
10 Aug 2024 to 14 Feb 2025
<https://indico.cern.ch/e/hadrons2025>

Logos: IF, PPG FISTER UFRGS, FAPESP, CAPES, FAPERGS



Começar (Iniciar) 10 de mar. de 2025 09:00
Fim 14 de mar. de 2025 19:00
America/Sao_Paulo



Centro Cultural - UFRGS
Jacarandá Auditorium
Rua Eng. Luiz Englert, 333 - Porto Alegre-RS
[Ir para o mapa](#)



[Victor Goncalves](#)



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ID da Contribuição: 90

Tipos: Poster

Higher-order QCD corrections to the Higgs decay into hadrons

terça-feira, 11 de março de 2025 17:46 (2 minutos)

In this work we study the higher-order QCD corrections of the Higgs decay into bottom quarks and into a pair of gluons. Our method consists of employing Padé and D-log Padé approximants considering the perturbative coefficients dependence on the number of flavors. We estimate, in a model-independent way, the yet unknown coefficient of order α_s^7 of $\Gamma(H \rightarrow gg)$ in the scale-invariant scheme as -312 ± 36 and in the on-shell scheme as -302 ± 35 . Moreover, our prediction of the first unknown coefficient of $\Gamma(H \rightarrow b\bar{b})$, of $\mathcal{O}(\alpha_s^5)$, is -27 ± 2 . Both perturbative series, with the inclusion of these corrections, are almost insensitive to variations on the renormalization scale. The main source of uncertainty for the Higgs decay rate into hadrons remains to be the Standard Model parameters, the strong coupling, the quark masses and the Higgs mass.

Autores: BOITO, Diogo; LONDON, Cristiane Yumi; A. NOGUEIRA, Guilherme (UNICAMP)

Apresentador: LONDON, Cristiane Yumi

Classificação da Sessão: Poster session