

## **Application of the matrix element method to Higgs boson pair production in the channel $HH \rightarrow b\bar{b}WW^*$ at the LHC**

**Ehataht, Karl**; Veelken, Christian Nuclear Instruments and Methods in Physics Research Section A: Accelerators, Spectrometers, Detectors and Associated Equipment 2022 / art. 166373, 14 p. : ill <https://doi.org/10.1016/j.nima.2022.166373>

## **Aspects of Higgs boson physics : vacuum stability, Yukawa couplings and $SO(10)$ unification = Higgsi bosoni füüsika aspektid : vaakumi stabiilsus, Yukawa interaktsioonid ja $SO(10)$ ühendteooriad**

**Ouyang, Ruiwen** 2023 <https://doi.org/10.23658/taltech.39/2023> <https://digikogu.taltech.ee/et/Item/3574ebed-b8a5-4bc1-98b9-b10176a139a5>  
[https://www.ester.ee/record=b5571980\\*est](https://www.ester.ee/record=b5571980*est)

## **Doubly charged Higgs boson decays and implications on neutrino physics = Kahekordse laenguga Higgsi bosoni lagunemiste analüüs ja selle mõju neutriinofüüsikale**

**Kadastik, Mario** 2008 [https://www.ester.ee/record=b2424087\\*est](https://www.ester.ee/record=b2424087*est)

## **Measurement of Higgs boson couplings in final states featuring multiple leptons and hadronic $\tau$ decay products = Higgsi bosoni seoseparameetrite mõõtmine mitmeid leptoneid ja hadronilisi $\tau$ laguprodukte sisaldavates lõppolekutes**

**Ehataht, Karl** 2023 <https://doi.org/10.23658/taltech.52/2023> <https://digikogu.taltech.ee/et/Item/14ef9ae7-ad97-433b-a6a5-03741045bdfc>  
[https://www.ester.ee/record=b5638918\\*est](https://www.ester.ee/record=b5638918*est)

## **Measurement of the Higgs boson production rate in association with top quarks in final states with electrons, muons, and hadronically decaying tau leptons at $\sqrt{s} = 13$ TeV**

Sirunyan, A. M.; Tumasyan, A.; Adam, W.; Bergauer, T.; **Ehataht, Karl** The European Physical Journal C 2021 / art. 378, 51 p. : ill  
<https://doi.org/10.1140/epjc/s10052-021-09014-x>

## **Meie maailm paistab olevat väike virvendus**

**Strandberg, Marek** Sirp 2013 / lk. 24 : fot

## **Non-supersymmetric $SO(10)$ models with Gauge and Yukawa coupling unification**

Djouadi, Abdelhak; Fonseca, Renato; **Ouyang, Ruiwen**; Raidal, Martti The European Physical Journal C 2023 / art. 529, 25 p. : ill  
<https://doi.org/10.1140/epjc/s10052-023-11696-4>

## **A review of elemental mass origin and fundamental forces unification for nuclear and aerospace industries**

**Hussain, Abrar**; Abbas, Muhammad Mujtaba Journal of Modern Nanotechnology 2021 / 8 p. <https://doi.org/10.53964/jmn.2021002>

## **Search for Higgs boson pairs decaying to $WW^*WW^*$ , $WW^*\pi$ , and $\pi\pi\pi$ in proton-proton collisions at $\sqrt{s} = 13$ TeV**

Tumasyan, A.; Adam, W.; Andrejkovic, J. W.; **Ehataht, Karl** Journal of high energy physics 2023 / art. 95, 65 p. : ill  
[https://doi.org/10.1007/JHEP07\(2023\)095](https://doi.org/10.1007/JHEP07(2023)095)

## **Tippteaduse heaks tuleb geniaalsust ja töötahet toetada õigel ajal : [intervjuu akadeemik Martti Raidaliga]**

**Strandberg, Marek**; Raidal, Martti Sirp 2013 / lk. 25 : fot <https://www.sirp.ee/s1-artiklid/c21-teadus/2013-12-12-14-09-28-2/>

## **Unified interpretation of scalegenesis in conformally extended standard models : a dynamical origin of Higgs portal**

Ishida, Hiroyuki; Matsuzaki, Shinya; **Ouyang, Ruiwen** Chinese Physics C 2020 / art. 111002, 7 p. : ill <https://doi.org/10.1088/1674-1137/abb07f>

## **Vacuum stability with radiative Yukawa couplings**

Gabrielli, Emidio; Marzola, Luca; Mürsepp, Kristjan; **Ouyang, Ruiwen** Journal of high energy physics 2022 / art. 142, 27 p. : ill  
[https://doi.org/10.1007/JHEP01\(2022\)142](https://doi.org/10.1007/JHEP01(2022)142)

## **Yukawa coupling unification in non-supersymmetric $SO(10)$ models with an intermediate scale**

Djouadi, Abdelhak; **Ouyang, Ruiwen**; Raidal, Martti Physics Letters B 2022 / art. 136788, 7 p. : ill  
<https://doi.org/10.1016/j.physletb.2021.136788>