

# Seznam výsledků činnosti Centra částicové fyziky za rok 2006

(autoři - pracovníci Centra jsou podtrženi)

## A. Původní práce v recenzovaných časopisech za rok 2006

### Experiment H1

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4. Aktas, J. Cvach, P. Reimer, J. Zálešák, K. Černý, M. Nožička, A. Valkárová, J. Žáček et al., SEARCH FOR A NARROW BARYONIC RESONANCE DECAYING TO  $K_s^0$  P OR  $K_s^0$   $\bar{P}$  IN DEEP INELASTIC SCATTERING AT HERA. Phys.Lett.B639:202-209,2006.
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7. Aktas, J. Cvach, P. Reimer, J. Zálešák, K. Černý, M. Nožička, A. Valkárová, J. Žáček et al., PHOTOPRODUCTION OF DIJETS WITH HIGH TRANSVERSE MOMENTA AT HERA. Phys.Lett.B638:422-431,2006.
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## Experiment D0

15. V.M. Abazov, V. Hubáek, J. Kvita, A. Kup o, M. Lokají ek, K. Soustružník, V. Šimák, *et al.*, [THE UPGRADED D0 DETECTOR](#), Nucl. Instrum. Meth. A 565, 463-537 (2006)
16. V.M. Abazov, V. Hubáek, J. Kvita, A. Kup o, M. Lokají ek, K. Soustružník, V. Šimák, *et al.*, [SEARCH FOR THE HIGGS BOSON IN  \$H \rightarrow WW^{\(\*\)}\$  DECAYS IN P ANTI-P COLLISIONS AT  \$S^{\*\*}\(1/2\) = 1.96\text{-TeV}\$](#) , Phys. Rev. Lett. 96, 011801 (2006),
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28. V.M. Abazov, V. Hubáek, J. Kvita, A. Kup o, M. Lokajíek, K. Soustružník, V. Šimák, *et al.*, [SEARCH FOR A HEAVY RESONANCE DECAYING INTO A Z+JET FINAL STATE IN P ANTI-P COLLISIONS AT  \$S^{\*\(1/2\)} = 1.96\text{-TeV}\$  USING THE D0 DETECTOR](#), Phys. Rev. D 74, 011104 (2006)
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39. F. Arciprete, M. Boháčová et al.: MEASUREMENT OF THE FLUORESCENCE YIELD IN ATMOSPHERIC GASES, Czech.J.Phys.56:A361-A367, 2006
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## Vývoj a testování polovodičových detektorů

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## Teorie

49. L. Hlavatý, M. Turek, FLAT COORDINATES AND DILATON FIELDS FOR THREE-DIMENSIONAL CONFORMAL SIGMA MODELS, J. High Energy Phys. 06 (2006) 003.
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## B. Vystoupení na konferencích

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58. A. Kupčo : INCLUSIVE JET PRODUCTION FROM THE TEVATRON, XXXIII ICHEP, Moscow, July 26 - August 2, 2006
59. A. Kupčo : LATEST D0 QCD RESULTS, 7th RTN Workshop - The 3rd Generation as a Probe for New Physics, Prague, 2006
60. M. Taševský: SIMULATIONS OF DIFFRACTIVE HIGGS PRODUCTION, HERA-LHC, CERN, 8.6.2006,
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63. M. Taševský: STUDY OF PILE-UP EFFECTS AT LHC Workshop on background to  $H \rightarrow b\bar{b}$  process at LHC, Ženeva, září 2006
64. L. Fiala: DATA MANAGEMENT FOR ALICE AND ATLAS AND VOCE IN THE CZECH REPUBLIC, International Conference Grid2006: "Distributed Computing and Grid-technologies in Science and Education", JINR Dubna, 25 - 29 June 2006
65. M. Lokajíček: CURRENT STATUS AND PLANS FOR CZECH GRID FOR HEP, invited lecture for ICFA-SCIC workshop on HEP Networking, Grid nad Digital Divide Issues for Global e-science, Krakov, Poland, 9 – 11 October 2006
66. J. Chýla, SCALE AMBIGUITIES IN PERTURBATIVE QCD: DO THEY MATTER AT LHC?, 3rd Vienna Central European Seminar on Quantum Field Theory, Vídeň, prosinec 2006
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70. M. Boháčová: RESULTS OF AIRFLY EXPERIMENT, 4th Fluorescence workshop - Floret, Pruhonice, May 17 – 20, 2006
71. J. Řídký: SURFACE DETECTOR OF PIERRE AUGER OBSERVATORY, CRIS 2006 - Ultra-High Energy Cosmic Rays: Status and Perspectives, Catania, Itálie, červen 2006
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79. J. Fischer: DIVERGENTNÍ ŘADY V PORUCHOVÉ TEORII, Konference Sekce matematické fyziky JČMF v Brně, 29.-30. 6. 2006)

## C. Sborníky

80. J. Řídký, M. Boháčová, D. Nosek, J. Rameš, R. Šmída, P. Trávníček (editors): FROM COLLIDERS TO COSMIC RAYS. PROCEEDINGS, INTERNATIONAL CONFERENCE ON INTERCONNECTION BETWEEN HIGH ENERGY PHYSICS AND ASTROPARTICLE PHYSICS, C2CR-Prague'05, Praha, září, 2005, Czech. J. Phys. A56, Suppl. 1 (2006) A1-A367