

References

- [1] JADE Collaboration, J. Schieck et al., Measurement of the strong coupling α_s from the three-jet rate in e^+e^- - annihilation using JADE data. *Eur. Phys. J.* **C73**, 2332 (2013). [arXiv:1205.3714](#).
- [2] JADE Collaboration, C. Pahl et al., Study of moments of event shapes and a determination of α_s using e^+e^- annihilation data from JADE. *Eur. Phys. J.* **C60**, 181 (2009). [arXiv:0810.2933](#). [erratum: *Eur. Phys. J.* **C62**, 451(2009)].
- [3] JADE Collaboration, S. Bethke et al., Determination of the Strong Coupling α_s from hadronic Event Shapes with $\mathcal{O}(\alpha_s^3)$ and resummed QCD predictions using JADE Data. *Eur. Phys. J.* **C64**, 351 (2009). [arXiv:0810.1389](#).
- [4] JADE Collaboration, J. Schieck et al., Measurement of the strong coupling α_s from the four-jet rate e^+e^- annihilation using JADE data. *Eur. Phys. J.* **C48**, 3 (2006). [arXiv:0707.0392](#). [Erratum: *Eur. Phys. J.* **C50**, 769(2007)].
- [5] C. Pahl et al., Study of moments of event shapes in e^+e^- annihilation using JADE data, Proceedings, 32nd International Conference on High Energy Physics (ICHEP 2004): Beijing, China, August 16-22, 2004. Vol. 1+2. (2004). Also in preprint [hep-ex/0408123](#). [arXiv:hep-ex/0408123](#).
- [6] J. Schieck et al., Measurement of the strong coupling constant α_s from the four-jet rate in e^+e^- annihilation using JADE data, Proceedings, 32nd International Conference on High Energy Physics (ICHEP 2004): Beijing, China, August 16-22, 2004. Vol. 1+2. (2004). Also in preprint [hep-ex/0408122](#). [arXiv:hep-ex/0408122](#).
- [7] S. Kluth et al., QCD studies with resurrected JADE data, Proceedings, 38th Rencontres de Moriond on QCD and High-Energy Hadronic Interactions: Les Arcs, France, March 22-29, 2003. (2003). Also in preprint [hep-ex/0305023](#). [arXiv:hep-ex/0305023](#).
- [8] JADE Collaboration, M. Blumenstengel et al., Measurement of the longitudinal and transverse cross-section in e^+e^- annihilation at $s^{(1/2)} = 35\text{-GeV} - 44\text{-GeV}$. *Phys. Lett.* **B517**, 37 (2001). [arXiv:hep-ex/0106066](#).
- [9] JADE and OPAL Collaborations, P. Pfeifenschneider et al., QCD analyses and determinations of α_s in e^+e^- annihilation at energies between 35-GeV and 189-GeV. *Eur. Phys. J.* **C17**, 19 (2000). [arXiv:hep-ex/0001055](#).
- [10] JADE Collaboration, O. Biebel, P.A. Movilla Fernandez and S. Bethke, C parameter and jet broadening at PETRA energies. *Phys. Lett.* **B459**, 326 (1999). [arXiv:hep-ex/9903009](#).
- [11] P.A. Movilla Fernandez, O. Biebel and S. Bethke, Measurement of C parameter and determinations of α_s from C parameter and jet broadening at PETRA energies, High-energy physics. Proceedings, 29th

International Conference, ICHEP'98, Vancouver, Canada, July 23-29, 1998. Vol. 1, 2. (1998). Also in preprint hep-ex/9807007.
arXiv:hep-ex/9807007.

- [12] JADE Collaboration, P.A. Movilla Fernandez et al., A Study of event shapes and determinations of α_s using data of e^+e^- annihilations at $s^{(1/2)} = 22\text{-GeV}$ to 44-GeV . Eur. Phys. J. **C1**, 461 (1998).
arXiv:hep-ex/9708034.
- [13] JADE Collaboration, R. Pust et al., Measurement and analysis of the reaction $\gamma\gamma \rightarrow 3\pi^+3\pi^-$. Z. Phys. **C51**, 531 (1991).
- [14] JADE Collaboration, N. Magnussen et al., A Comparison of measured jet cross-sections with QCD calculations for e^+e^- annihilation. Z. Phys. **C49**, 29 (1991).
- [15] JADE Collaboration, J. Hagemann et al., A Measurement of the average lifetime of B hadrons produced by e^+e^- collisions at $s^{(1/2)} = 36.3\text{-GeV}$. Z. Phys. **C48**, 401 (1990).
- [16] JADE Collaboration, A. Wegner et al., Measurement of two photon production of ρ/ω . Z. Phys. **C48**, 393 (1990).
- [17] JADE Collaboration, T. Oest et al., Measurement of Resonance Productions in the Reactions $\gamma\gamma \rightarrow \pi^0\pi^0$ and $\gamma\gamma \rightarrow \pi^0\eta$. Z. Phys. **C47**, 343 (1990).
- [18] JADE Collaboration, E. Elsen, A measurement of the weak axial couplings of the b - and c -quark. Nucl. Phys. Proc. Suppl. **16**, 290 (1990).
- [19] JADE Collaboration, S. Hegner et al., Final Results on μ and Tau Pair Production by the JADE Collaboration at PETRA. Z. Phys. **C46**, 547 (1990).
- [20] JADE Collaboration, D.D. Pitzl et al., A Study of Photon Production in Hadronic Events from e^+e^- Annihilation. Z. Phys. **C46**, 1 (1990).
[Erratum: Z. Phys.C47,676(1990)].
- [21] JADE Collaboration, E. Elsen et al., A Measurement of the Weak Axial Couplings of the b and c Quark. Z. Phys. **C46**, 349 (1990).
- [22] JADE Collaboration, F. Ould-Saada et al., A Measurement of the Charmed Quark Asymmetry in e^+e^- Annihilation. Z. Phys. **C44**, 567 (1989).
- [23] A.J. Finch, Inclusive D^* production in single tagged $\gamma\gamma$ events, 8th International Workshop on Photon-Photon Collisions Jerusalem, Israel, April 24-28, 1988, pp. 75-76. (1988).
- [24] J. Olsson, Exclusive resonance production in $\gamma\gamma$ collisions, 8th International Workshop on Photon-Photon Collisions Jerusalem, Israel, April 24-28, 1988, pp. 77-80. (1988).

- [25] JADE Collaboration, T. Greenshaw et al., A Measurement of the Charge Asymmetry of Hadronic Events in Electron Positron Annihilation. *Z. Phys.* **C42**, 1 (1989).
- [26] JADE Collaboration, P. Hill et al., Observation of Spin 1 Resonance Formation in the Final State $KK\pi$ Produced in Tagged Two Photon Collisions. *Z. Phys.* **C42**, 355 (1989).
- [27] JADE Collaboration, C. Kleinwort et al., A Measurement of the τ Lepton Lifetime. *Z. Phys.* **C42**, 7 (1989).
- [28] JADE Collaboration, S. Bethke et al., Experimental Investigation of the Energy Dependence of the Strong Coupling Strength. *Phys. Lett.* **B213**, 235 (1988).
- [29] JADE Collaboration, F. Ould-Saada et al., Comparison of the Particle Flow in $q\bar{q}\gamma$ and $q\bar{q}g$ Events From e^+e^- Annihilations at PETRA. *Z. Phys.* **C39**, 1 (1988).
- [30] W. Bartel, Experimental investigation of the energy dependence of the strong coupling strength. (1987).
- [31] JADE Collaboration, W. Bartel et al., Search for Leptoquarks and Other New Particles With Lepton - Hadron Signature in e^+e^- Interactions. *Z. Phys.* **C36**, 15 (1987).
- [32] J. Olsson, Measurement of the radiative width $\Gamma(\eta \rightarrow \gamma\gamma)$ at PETRA. (abstract only), 6th International Conference on Photon-Photon Collisions Lake Tahoe, California, September 10-13, 1984. (1986).
- [33] JADE Collaboration, W. Bartel et al., Determination of Semimuonic Branching Ratios and Fragmentation Functions of Heavy Quarks in e^+e^- Annihilation at $s^{(1/2)} = 34.6$ -GeV. *Z. Phys.* **C33**, 339 (1987).
- [34] JADE Collaboration, W. Bartel et al., Observation of Charmed Mesons in Photon-photon Collisions. *Phys. Lett.* **B184**, 288 (1987).
- [35] JADE Collaboration, W. Bartel et al., Measurement of the Branching Fractions for $\tau \rightarrow e\nu_e\nu_\tau$, $\tau \rightarrow \mu\nu_\mu\nu_\tau$ and $\tau \rightarrow \pi\nu_\tau$. *Phys. Lett.* **B182**, 216 (1986).
- [36] JADE Collaboration, W. Bartel et al., Experimental Studies on Multi-Jet Production in e^+e^- Annihilation at PETRA Energies. *Z. Phys.* **C33**, 23 (1986).
- [37] JADE Collaboration, W. Bartel et al., Exclusive Production of Proton Anti-proton Pairs in Photon-photon Collisions. *Phys. Lett.* **B174**, 350 (1986).
- [38] M. Kuhlen, Hadronic events with low thrust containing isolated leptons, Progress in electroweak interactions. Proceedings, 21st Rencontres de Moriond, Les Arcs, France, March 9-16, 1986. Vol. 1: Leptonic session, pp. 181-186. (1986).

- [39] JADE Collaboration, W. Bartel et al., Radiative τ Pair Production and Search for New Particles Decaying Into τ . *Z. Phys.* **C31**, 359 (1986).
- [40] JADE Collaboration, W. Bartel et al., Determination of the B Lifetime. *Z. Phys.* **C31**, 349 (1986).
- [41] JADE Collaboration, W. Bartel et al., Lepton Pair Production in Double Tagged Two Photon Interactions. *Z. Phys.* **C30**, 545 (1986).
- [42] Duerdoth, I., B and D production., International Europhysics Conference on High-Energy Physics Bari, Italy, July 18-24, 1985, pp. 283-284. (1985).
- [43] JADE Collaboration, W. Bartel et al., Tests of the Standard Model in Leptonic Reactions at PETRA Energies. *Z. Phys.* **C30**, 371 (1986).
- [44] JADE Collaboration, W. Bartel et al., A Measurement of the Mean Semimuonic Branching Ratio of B Hadrons Produced at PETRA. *Phys. Lett.* **163B**, 277 (1985).
- [45] JADE Collaboration, W. Bartel et al., Inclusive Neutral D^* Production and Limits on F^* Production in e^+e^- Annihilation at PETRA. *Phys. Lett.* **161B**, 197 (1985).
- [46] W. Bartel et al., Evidence for iota production in high-energy e^+e^- Annihilation. (1985).
- [47] JADE Collaboration, W. Bartel et al., Tau Lepton Production and Decay at PETRA Energies. *Phys. Lett.* **161B**, 188 (1985).
- [48] JADE Collaboration, W. Bartel et al., A Measurement of the Total Cross-section and a Study of Inclusive Muon Production for the Process $e^+e^- \rightarrow$ Hadrons in the Energy Range Between 39.79-GeV and 46.78-GeV. *Phys. Lett.* **160B**, 337 (1985).
- [49] JADE Collaboration, W. Bartel et al., A Search for the Supersymmetric Chargino in e^+e^- Annihilation at PETRA. *Z. Phys.* **C29**, 505 (1985).
- [50] JADE Collaboration, W. Bartel et al., Comparison of Three Jet Events With QCD Shower Models. *Phys. Lett.* **157B**, 340 (1985).
- [51] JADE Collaboration, W. Bartel et al., A measurement of the η radiative width $\Gamma(\eta \rightarrow \gamma\gamma)$. *Phys. Lett.* **158B**, 511 (1985). [*Phys. Lett.*160B,421(1985)].
- [52] JADE Collaboration, W. Bartel et al., A Study of Photon Production in Hadronic e^+e^- Annihilation. *Z. Phys.* **C28**, 343 (1985).
- [53] JADE Collaboration, W. Bartel et al., A Search for Monojet Events Produced by Virtual Z^0 Bosons in e^+e^- Annihilation at PETRA. *Phys. Lett.* **155B**, 288 (1985).
- [54] S.R. Wagner, Radiative and single π^0 decays of D^* mesons at $\sqrt{s} = 34$ -GeV. *Conf. Proc.* **C841031**, 205 (1984).

- [55] JADE Collaboration, W. Bartel et al., Search for Scalar Muons. Phys. Lett. **152B**, 392 (1985).
- [56] JADE Collaboration, W. Bartel et al., Search for Supersymmetric Partners of Electrons. Phys. Lett. **152B**, 385 (1985).
- [57] JADE Collaboration, W. Bartel et al., New Results on $e^+e^- \rightarrow \mu^+\mu^-$ From the JADE Detector at PETRA. Z. Phys. **C26**, 507 (1985).
- [58] JADE Collaboration, W. Bartel et al., Inclusive Production of Vector Mesons ρ^0 and $K^{*\pm}$ in e^+e^- Annihilation at $\langle \sqrt{s} \rangle = 35\text{-GeV}$. Phys. Lett. **145B**, 441 (1984).
- [59] JADE Collaboration, W. Bartel et al., A Measurement of the Electroweak Induced Charge Asymmetry in $e^+e^- \rightarrow B\bar{B}$. Phys. Lett. **146B**, 437 (1984).
- [60] JADE Collaboration, W. Bartel et al., Charged D^* Production in e^+e^- Annihilation. Phys. Lett. **146B**, 121 (1984).
- [61] JADE Collaboration, W. Bartel et al., Measurements of Energy Correlations in $e^+e^- \rightarrow \text{Hadrons}$. Z. Phys. **C25**, 231 (1984).
- [62] W. Bartel et al., Observation of Radiative e^+e^- Annihilation Into $\mu\mu\gamma$ and $\mu\mu\gamma\gamma$. Z. Phys. **C24**, 223 (1984).
- [63] W. Bartel et al., Experimental Study of the Photon Structure Function $F(2)$ at Q^2 from 10-GeV^2 to 220-GeV^2 . Z. Phys. **C24**, 231 (1984).
- [64] JADE Collaboration, W. Bartel et al., A Search for the Supersymmetric Partner of the Z^0 in e^+e^- Annihilation at PETRA. Phys. Lett. **146B**, 126 (1984).
- [65] JADE Collaboration, W. Bartel et al., A Search for Massive Photinos at PETRA. Phys. Lett. **139B**, 327 (1984).
- [66] JADE Collaboration, W. Bartel et al., A Search for Flavor Changing Neutral Currents in b Decay at PETRA. Phys. Lett. **132B**, 241 (1983).
- [67] JADE Collaboration, W. Bartel et al., Test of Fragmentation Models by Comparison with Three Jet Events Produced in $e^+e^- \rightarrow \text{Hadrons}$. Phys. Lett. **134B**, 275 (1984).
- [68] JADE Collaboration, W. Bartel et al., Particle Distribution in Three Jet Events Produced by e^+e^- Annihilation. Z. Phys. **C21**, 37 (1983).
- [69] JADE Collaboration, W. Bartel et al., Observation of Inclusive η Production in e^+e^- Annihilation at CM Energies of 34-GeV . Phys. Lett. **130B**, 454 (1983).
- [70] JADE Collaboration, W. Bartel et al., Measurement of the Processes $e^+e^- \rightarrow e^+e^-$ and $e^+e^- \rightarrow \gamma\gamma$ at PETRA. Z. Phys. **C19**, 197 (1983).

- [71] JADE Collaboration, W. Bartel et al., Precise Measurement of Total Cross-Sections for the Process $e^+e^- \rightarrow$ Multi-Hadrons in the Center-Of-Mass Energy Range Between 12.0-GeV and 36.4-GeV. Phys. Lett. **129B**, 145 (1983).
- [72] W. Bartel et al., Charged Particle and Neutral Kaon Production in e^+e^- Annihilation at PETRA. Z. Phys. **C20**, 187 (1983).
- [73] JADE Collaboration, W. Bartel et al., A Search for Heavy Leptons at PETRA. Phys. Lett. **123B**, 353 (1983).
- [74] JADE Collaboration, W. Bartel et al., Experimental Evidence for Differences in p_T Between Quark Jets and Gluon Jets. Phys. Lett. **123B**, 460 (1983).
- [75] JADE Collaboration, W. Bartel et al., Experimental Study of the Photon Structure Function F_2 in the High Q^2 Region. Phys. Lett. **121B**, 203 (1983).
- [76] JADE Collaboration, W. Bartel et al., Differential Three Jet Cross-section in e^+e^- Annihilation and Comparison With Second Order Predictions of QCD and Abelian Vector Theory. Phys. Lett. **119B**, 239 (1982).
- [77] JADE Collaboration, W. Bartel et al., A Search for Charged Scalar Particles Pair Produced in e^+e^- Annihilation. Phys. Lett. **114B**, 211 (1982).
- [78] JADE Collaboration, W. Bartel et al., Upper Limit on Beauty Lifetime and Lower Limit on Weak Mixing Angles. Phys. Lett. **114B**, 71 (1982).
- [79] JADE Collaboration, W. Bartel et al., Observation of Four - Jet Structure in e^+e^- Annihilation at $\sqrt{s} = 33$ -GeV. Phys. Lett. **115B**, 338 (1982).
- [80] JADE Collaboration, W. Bartel et al., A Measurement of the Reaction $e^+e^- \rightarrow e^+e^-\eta'$ and the Radiative Width $\Gamma(\eta' \rightarrow \gamma\gamma)$ at PETRA. Phys. Lett. **113B**, 190 (1982).
- [81] JADE Collaboration, W. Bartel et al., Observation of a Charge Asymmetry in $e^+e^- \rightarrow \mu^+\mu^-$. Phys. Lett. **108B**, 140 (1982).
- [82] JADE Collaboration, W. Bartel et al., Observation of High p_T Jets in Two Photon Interactions. Phys. Lett. **107B**, 163 (1981).
- [83] JADE Collaboration, W. Bartel et al., Baryon Production in e^+e^- Annihilation at PETRA. Phys. Lett. **104B**, 325 (1981).
- [84] JADE Collaboration, W. Bartel et al., Energy Carried by γ Rays and Neutral Particles in Multi - Hadron Final States at PETRA. Z. Phys. **C9**, 315 (1981).
- [85] JADE Collaboration, W. Bartel et al., A Determination of Quark Weak Couplings at PETRA Energies. Phys. Lett. **101B**, 361 (1981).

- [86] JADE Collaboration, W. Bartel et al., Experimental Study of Jets in electron - Positron Annihilation. *Phys. Lett.* **101B**, 129 (1981).
- [87] JADE Collaboration, W. Bartel et al., Search for Narrow Resonances in e^+e^- Annihilation at c.m. Energies Between 33.0-GeV and 36.72-GeV. *Phys. Lett.* **100B**, 364 (1981).
- [88] JADE Collaboration, S. Yamada, Recent Results from the JADE Collaboration. *AIP Conf. Proc.* **68**, 616 (1980).
- [89] H. Wriedt, Present status of jade's $\gamma - \gamma$ physics Analysis. *Lect. Notes Phys.* **134**, 161 (1980).
- [90] W. Bartel, Recent results from the jade collaboration on a search For new flavor production and for free quarks., Electroweak interactions and unified theories. *Proceedings, 15th Rencontres de Moriond, Les Arcs, France, March 9-21, 1980. Vol. 2, pp. 143-155.* (1980).
- [91] JADE Collaboration, W. Bartel et al., Experimental Limits on the Strength of Weak Neutral Currents in Lepton Pair Production at PETRA Energies. *Phys. Lett.* **99B**, 281 (1981).
- [92] JADE Collaboration, W. Bartel et al., Prompt Muons in Multiparticle Events From e^+e^- Annihilation at PETRA. *Phys. Lett.* **99B**, 277 (1981).
- [93] JADE Collaboration, W. Bartel et al., Search for Fractional Charge and Heavy Stable Particles at PETRA. *Z. Phys.* **C6**, 295 (1980).
- [94] W. Bartel and A. Petersen, Results From JADE, Elementary constituents and hadronic structure. *Proceedings, 15th Rencontres de Moriond, Les Arcs, France, March 9-21, 1980. Vol. 1, pp. 505-520.* (1980).
- [95] JADE Collaboration, W. Bartel et al., Test of Quantum Electrodynamics at PETRA. *Phys. Lett.* **92B**, 206 (1980).
- [96] JADE Collaboration, W. Bartel et al., Search for Narrow Resonances in e^+e^- Annihilation at c.m. Energies Between 29.90-GeV and 31.46-GeV. *Phys. Lett.* **91B**, 152 (1980).
- [97] JADE Collaboration, W. Bartel et al., Observation of Planar Three Jet Events in e^+e^- Annihilation and Evidence for Gluon Bremsstrahlung. *Phys. Lett.* **91B**, 142 (1980).
- [98] S. Orito et al., First Results from JADE. *EConf* **C790823**, 52 (1979).
- [99] JADE Collaboration, W. Bartel et al., Search for New Flavor Production at PETRA. *Phys. Lett.* **89B**, 136 (1979).
- [100] JADE Collaboration, W. Bartel et al., Total Cross-Section for Hadron Production by e^+e^- Annihilation at PETRA Energies. *Phys. Lett.* **88B**, 171 (1979).