

## Tord Johansson

### List of publications: Articles

- A1) **Incoherent production of  $p\pi^+ \pi^-$  systems in proton-nucleus collisions at 18.6 GeV**  
P.Bruton, J.Davies, T.Ekelöf, S.Fisher, G.Fäldt, P.Grafström, E.Haberg,  
T.Johansson, S.Jonsson, S.Kullander, J.Nassalski, A.L.Read  
Phys. Lett. **B59** (1975) 490.
- A2) **The  $(p, \pi^-)$  reaction on  $^{26}\text{Mg}$  at 180 MeV and a search for  $\Delta^{++}$  components in nuclei**  
B.Höistad, T.Johansson, O.Jonsson  
Phys. Lett. **B73** (1978) 123.
- A3) **Fission of muonic  $^{232}\text{Th}$  and  $^{238}\text{U}$**   
Dz.Ganzorig, P.G.Hansen, T.Johansson, B.Jonsson, J.Konijn, T.Krogulski,  
V.D.Kuznetsov, S.M.Polikanov, G.Tibell, L.Westgaard  
Phys. Lett. **B77** (1978) 257.
- A4) **The muon capture rate in  $^{232}\text{Th}$  and  $^{238}\text{U}$  studied in the fission mode**  
Dz.Ganzorig, P.G.Hansen, T.Johansson, B.Jonsson, J.Konijn, T.Krogulski,  
V.D.Kuznetsov, S.M.Polikanov, G.Tibell, L.Westgaard  
Phys. Lett. **B78** (1978) 41.
- A5) **Positive pion production on  $^{90}\text{Zr}$  and  $^{208}\text{Pb}$  by 180 MeV protons**  
B.Höistad, T.Johansson, O.Jonsson  
Phys. Lett. **B79** (1978) 385.
- A6) **Experimental and theoretical studies of positive pion production on  $^{10}\text{B}$  and  $^{40}\text{Ca}$  by 163-186 MeV protons**  
B.Höistad, S.Dahlgren, T.Johansson, O.Jonsson  
Nucl. Phys. **A319** (1979) 409.
- A7) **Medium energy proton scattering from  $^{58}\text{Ni}$ . Experimental results and coupled-channels calculations**  
A.Ingemarsson, T.Johansson, G.Tibell  
Nucl. Phys. **A322** (1979) 285.
- A8) **Pionic  $4f \rightarrow 3d$  transitions in  $^{181}\text{Ta}$ , natural Re and  $^{208}\text{Bi}$  and the strong interaction level shift and width of the pionic 3d state**  
J.Konijn, J.K.Panman, J.H.Koch, W.vanDoesburg, G.T.Ewan, T.Johansson,  
G.Tibell, K.Fransson, L.Tauscher  
Nucl. Phys. **A326** (1979) 401.

- A9) **Fission of  $^{232}\text{Th}$  and  $^{238}\text{U}$  in the interaction with negative muons**  
 Dz.Ganzorig,P.G.Hansen,T.Johansson,B.Jonsson,J.Konijn,T.Krogulski,  
 S.M.Polikanov,G.Tibell,L.Westgaard  
 Nucl. Phys. **A350** (1980) 278.
- A10) **Muon induced quadrupole photofission**  
 T.Johansson,J.Konijn,T.Krogulski,S.M.Polikanov,H.W.Reist,G.Tibell  
 Phys. Lett. **B97** (1980) 29.
- A11) **Proton emission in 58A and 86A MeV  $^{12}\text{C}$ -induced heavy-ion reactions**  
 B.Jakobsson,L.Carlén,P.Kristiansson,J.Krumlinde,A.Oskarsson,I.Otterlund,  
 B.Schröder,H-Å.Gustafsson,T.Johansson,H.Ryde,G.Tibell,J.P.Bondorf,  
 G.Fàì,A.O.T.Karvinen,O.B.Nielsen,M.Buenerd,J.Cole,D.Lebrun,J.M.Loiseaux,  
 C.Guet,E.Monnard,J.Mougey,H.Nifenecker,P.Perrin,J.Pinston,C.Ristori,  
 F.Schussler  
 Phys. Lett. **B102** (1981) 121.
- A12) **Elastic and inelastic scattering of 1.03 GeV  $^{12}\text{C}$  projectiles**  
 M.Buenerd,J.Pinston,J.Cole,C.Guet,D.Lebrun,J.M.Loiseaux,P.Martin,  
 E.Monnard,J.Mougey,H.Nifenecker,R.Ost,P.Perrin,C.Ristori,  
 P.de Saintignon,L.Carlén,H-Å.Gustafsson,B.Jakobsson,T.Johansson,  
 G.Jönsson,J.Krumlinde,I.Otterlund,H.Ryde,B.Schröder,G.Tibell,J.B.Bondorf,  
 O.B.Nielsen  
 Phys. Lett. **B102** (1981) 242.
- A13) **Projectile-like fragments from 86 MeV/nucleon  $^{12}\text{C}$  induced reactions**  
 J.Mougey,R.Ost,M.Buenerd,A.J.Cole,C.Guet,D.Lebrun,J.M.Loiseaux,P.Martin,  
 M.Maurel,E.Monnard,H.Nifenecker,P.Perrin,J.Pinston,C.Ristori,  
 P.de Saintignon,F.Schussler,L.Carlén,B.Jakobsson,A.Oskarsson,I.Otterlund,  
 B.Schröder,H-Å.Gustafsson,T.Johansson,H.Ryde,J.P.Bondorf,O.B.Nielsen,  
 G.Tibell  
 Phys. Lett. **B105** (1981) 25.
- A14) **Quadrupole interactions in pionic and muonic tantalum and rhenium.**  
 J.Konijn,W.van Doesburg,G.T.Ewan,T.Johansson,G.Tibell  
 Nucl. Phys. **A360** (1981) 187.
- A15) **Elastic and inelastic scattering of 178 MeV protons from  $^{58}\text{Ni}$  and  $^{60}\text{Ni}$**   
 A.Ingemarsson,T.Johansson,G.Tibell  
 Nucl. Phys. **A365** (1981) 426.
- A16) **Subthreshold pion production in heavy-ion collisions at 85 A MeV**  
 T.Johansson,H-Å.Gustafsson,B.Jakobsson,P.Kristiansson,B.Norén,  
 A.Oskarsson,L.Carlén,I.Otterlund,H.Ryde,J.Julien,C.Guet,R.Bertholet,  
 M.Maurel,H.Nifenecker,P.Perrin,F.Schussler,G.Tibell,M.Buenerd,  
 J.M.Loiseaux,P.Martin,J.P.Bondorf,O.B.Nielsen,A.O.T.Karvinen,J.Mougey  
 Phys. Rev. Lett. **48** (1982) 732.

- A17) **Observation of rainbow scattering in the  $^{12}\text{C} + ^{12}\text{C}$  system at  $E_{\text{c.m.}} = 508$  MeV**  
M.Buenerd,P.Martin,R.Bertholet,C.Guet,M.Maurel,J.Mougey,H.Nifenecker,  
J.Pinston,P.Perrin,F.Schussler,J.Julien,J.P.Bondorf,L.Carlén,H.Å.Gustafsson,  
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H.Ryde,B.Schröder,G.Tibell  
Phys. Rev. **C26** (1982) 1299.
- A18) **Radiationless  $3d \rightarrow 1s$  transitions in muonic atoms of  $^{238}\text{U}$**   
T.Johansson,J.Konijn,T.Krogulski,S.M.Polikanov,H.W.Reist,G.Tibell  
Phys. Lett. **B116** (1982) 402.
- A19) **Total kinetic energy release and mass distributions in prompt and delayed muon induced fission of  $^{238}\text{U}$**   
P.David,J.Hartfiel,H.Janzen,T.Johansson,J.Konijn,T.Krogulski,  
T.Mayer-Kuckuk,C.Petitjean,S.M.Polikanov,H.W.Reist,G.Tibell  
Phys. Lett. **B124** (1983) 161.
- A20) **The TREC: a  $4\pi$ , low pressure tracking range and energy chamber for heavily ionizing particles**  
A.Breskin,T.Johansson,S.M.Polikanov,J.C.Santiard  
Nucl. Instr. and Meth. **217** (1983) 131.
- A21) **On anomalous fission as a signature for heavy relic particles from the Big Bang**  
G.Barbiellini,A.Breskin,M.Cervenka,R.Chechik,G.Herrmann,T.Johansson,  
S.Polikanov,N.Trautmann  
CERN EP Int 83-09.
- A22) **Anomalous strong interaction shifts and widths of the  $3d$  state in pionic Pt and Au**  
J.F.M.d'Achard van Enschut,J.B.R.Berkhout,W.Duinker,C.E.E.van Eijk,  
W.H.A.Hesselink,T.Johansson,T.J.Ketel,J.H.Koch,J.Konijn,C.T.A.M.de Laat,  
W.Lourens,G.van Middelkoop,W.Poeser  
Phys. Lett **B136** (1984) 24.
- A23) **Production of charged pions in intermediate-energy collisions**  
V.Bernard,J.Girard,J.Julien,R.Legrain,J.Poitou,A.Oskarsson,L.Carlén,  
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F.Schussler,M.Buenerd,D.Lebrun,P.Martin,G.Lövhöiden,J.P.Bondorf,  
O.B.Nielsen,A.Palmeri  
Nucl. Phys. **A423** (1984) 511.

- A24) **Observation of the delayed fission induced by antiproton annihilation in  $^{238}\text{U}$**   
 J.P.Bocquet,M.Epherre-Rey Campagnolle,G.Ericsson,T.Johansson,J.Konijn,  
 T.Krogulski,M.Maurel,E.Monnard,J.Mougey,H.Nifenecker,P.Perrin,  
 S.Polikanov,C.Ristori,G.Tibell  
 Phys. Lett. **B182** (1986) 146.
- A25) **Study of the reaction  $\bar{p}p \rightarrow \bar{\Lambda}\Lambda$  near threshold.**  
 P.D.Barnes,R.Besold,P.Birien,B.Bonner,W.H.Breunlich,W.Dutty,  
 R.A.Eisenstein,G.Ericsson,W.Eyrich,R.von Frankenberg,G.Franklin,  
 J.Franz,N.Hamann,D.Hertzog,A.Hofmann,T.Johansson,K.Kilian,C.J.Maher,  
 S.Ohlsson,H.Ortner,P.Pawlek,B.Quinn,E.Rössle, H.Schledermann,  
 H.Schmitt,W.Wharton  
 Phys. Lett. **B189** (1986) 249.
- A26) **Delayed fission from the antiproton annihilation in  $^{209}\text{Bi}$  - evidence for hypernuclear decay**  
 J.P.Bocquet,M.Epherre-Rey Campagnolle,G.Ericsson,T.Johansson,J.Konijn,  
 T.Krogulski,M.Maurel,E.Monnard,J.Mougey,H.Nifenecker,P.Perrin,  
 S.Polikanov,C.Ristori,G.Tibell  
 Phys. Lett. **B192** (1987) 312.
- A27) **CP invariance in the reaction  $\bar{p}p \rightarrow \bar{\Lambda}\Lambda \rightarrow p\pi^+ p\pi^-$  at 1.546 GeV/c**  
 P.D.Barnes,P.Birien,B.E.Bonner,W.H.Breunlich,G.Diebold,W.Dutty,  
 R.A.Eisenstein,G.Ericsson,W.Eyrich,R.v. Frankenberg,G.Franklin,J.Franz,  
 N.Hamann,D.Hertzog,A.Hofmann,T.Johansson,K.Kilian,C.Maher,W.Oelert,  
 S.Ohlsson,H.W.Ortner,P.Pawlek,B.Quinn,E.Rössle,H.Schledermann, H.Schmitt,  
 J.Seydoux,F.Stinzing,J.Szymanski  
 Phys. Lett. **B199** (1987) 147.
- A28) **The study of prompt and delayed muon induced fission I. Total kinetic energies and mass distributions**  
 P.David,J.Hartfiel,H.Janzen,T.Mayer-Kuckuck,R.vonMutius,C.Petitjean,  
 H.W.Reist,M.Polikanov,J.Konijn,C.T.A.M.de Laat,A.Taal,T.Krogulski,  
 T.Johansson,G.Tibell,J.F.M.d'Achard van Enschut.  
 Z. Phys. **A328** (1987) 37.
- A29) **The study of prompt and delayed muon induced fission II. Mean life times of negative muons bound to  $^{237}\text{Np}$ ,  $^{242}\text{Pu}$  and  $^{244}\text{Pu}$ .**  
 P.David,H.Hänscheid,J.Hartfiel,H.Janzen,T.Mayer-Kuckuck,R.von Mutius,  
 F.Risse,Ch.F.G.Rösel,W.Schreider,C.Petitjean,H.W.Reist,S.M.Polikanov,  
 J.Konijn,C.T.A.M.de Laat,A.Taal,T.Krogulski,T.Johansson,G.Tibell,  
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 L.A.Schaller,L.Schellenberg  
 Z. Phys. **A330** (1988) 397.

- A30) **Charged pion production and projectile breakup in 85A MeV  $^{12}\text{C}$  induced heavy ion reactions**  
 B.Norén,B.Jakobsson,A.Kristiansson,L.Karlsson,A.Oskarsson,M.Westenius,  
 J.Julien,V.Bellini,R.Fonte,T.Johansson,J.Thun,C.Guet  
 Nucl. Phys. **A489** (1988) 763.
- A31) **Threshold measurement of the reaction  $\bar{p}p \rightarrow \bar{\Lambda}\Lambda \rightarrow p\pi^+ p\pi^-$  at LEAR**  
 P.D.Barnes,R.Besold,P.Birien,B.E.Bonner,W.H.Breunlich,G.Diebold,W.Dutty,  
 R.A.Eisenstein,G.Ericsson,W.Eyrich,R.v. Frankenberg,G.Franklin,J.Franz,  
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 H.Schmitt,J.Seydoux,P.Woldt  
 Phys. Lett. **B229** (1989) 432.
- A32) **Measurement of the reaction  $\bar{p}p \rightarrow \bar{\Lambda}\Sigma^0 + \text{c.c.}$  at 1.695 GeV/c**  
 P.D.Barnes,R.Besold,P.Birien,B.E.Bonner,W.H.Breunlich,G.Diebold,W.Dutty,  
 R.A.Eisenstein,G.Ericsson,W.Eyrich,R.v. Frankenberg,G.Franklin,J.Franz,  
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 H.Schmitt,J.Seydoux,P.Woldt  
 Phys. Lett. **B246** (1990) 273.
- A33) **Study of the reaction  $\bar{p}p \rightarrow \bar{\Lambda}\Lambda$  at 1.546 and 1.695 GeV/c**  
 P.D.Barnes,G.Diebold,G.Franklin,C.Maher,B.Quinn,J.Seydoux,K.Kilian,  
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 T.Johansson,S.Ohlsson,W.H.Breunlich,P.Pawlek  
 Nucl. Phys. **A526** (1991) 575.
- A34) **Neutron yields and angular distributions produced in antiproton annihilation at rest in uranium**  
 B.Chen,T.A.Armstrong,R.A.Lewis,R.Newton,G.A.Smith,J.P.Bocquet,F.Malek,  
 H.Nifenecker,M.Maurel,E.Monnard,P.Perrin,C.Ristori,G.Ericsson,  
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- A35) **Prompt fission induced by antiproton annihilation at rest on heavy nuclei.**  
 J.P.Bocquet,F.Malek,H.Nifenecker,M.Rey-Campagnolle,M.Maurel,E.Monnard,  
 P.Perrin,C.Ristori,G.Ericsson,T.Johansson,G.Tibell,S.Polikanov,T.Krogulski,  
 J.Mougey  
 Z. Phys. **A342** (1992) 183.
- A36) **Fission of heavy hypernuclei formed in antiproton annihilation**  
 T.A.Armstrong,J.P.Bocquet,G.Ericsson,T.Johansson,T.Krogulski,R.A.Lewis,  
 F.Malek,M.Maurel,E.Monnard,J.Mougey,H.Nifenecker,J.Passaneau,P.Perrin,  
 S.M.Polikanov,M.Rey-Campagnolle,C.Ristori,G.A.Smith,G.Tibell  
 Phys. Rev. **C47** (1993) 1957.

- A37) **Deuteron breakup by 1.5 GeV protons and excitation of the  $\Delta$  isobar**  
H.Calén,S.Carius,K.Fransson,L.Gustafsson,B.Höistad,T.Johansson,  
S.Kullander,A.Mörtsell,U.Schuberth,C.Ekström,A.Johansson,A.Kupsc,  
A.Nawrot,J.Stepaniak,I.P.Zielinski,A.Kuzmin,B.Schwartz,Z.Pawloski,  
Z.Wilhelmi,J.Zlomanczuk,J.Zabierowski  
Phys. Lett. **B303** (1993) 10.
- A38) **Measurement of the reaction  $\bar{p}p \rightarrow K_S K_S$  in the region  $\sqrt{s} \approx 2230 \text{ MeV}$**   
P.D.Barnes,P.Birien,W.H.Breunlich,G.Diebold,W.Dutty,R.A.Eisenstein,  
G.Ericsson,W.Eyrich,H.Fischer,R.vonFrankenberg,G.Franklin,J.Franz,  
R.Geyer,N.Hamann,D.Hertzog,P.Hoffmann,A.Hofmann,T.Johansson,K.Kilian,  
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H.-J.Urban  
Phys. Lett. **B309** (1993) 469.
- A39) **Search for an enhanced production of low energy pions in  $C(p,\pi^+)X$ ,  
 $Cu(p,\pi^+)X$  and  $C(p,\pi^0)X$  reactions for  $300 \text{ MeV} \leq T_p \leq 400 \text{ MeV}$**   
J.Julien,M.Bolore,J.Gosset,J.M.Hissleur,A.Mougeot,G.S.Pappalardo,  
B.Saghai,G.Sanouillet,D.Ardouin,H.Dabrowski,B.Erazmus,C.Lebrun,  
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T.Johansson,K.Kilian,L.Bimbot  
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- A40) **Study of the reaction  $\bar{p}p \rightarrow \bar{\Lambda}\Lambda$  below 6 MeV excess energy**  
P.D.Barnes,P.Birien,W.H.Breunlich,W.Dutty,R.A.Eisenstein,G.Ericsson,  
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- A41) **Observation of  $\phi\phi$  production in the reaction  $\bar{p}p \rightarrow 4K^\pm$  at 1.4 GeV/c  
incident  $\bar{p}$  momentum**  
L.Bertolotto,A.Buzzo,P.T.Devebec,D.Drijard,S.Easo,R.A.Eisenstein,W.Eyrich,  
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- A42) **The  $pp \rightarrow pp\pi^0$  reaction near the kinematical threshold**  
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 B.Höistad,A.Johansson,T.Johansson,K.Kilian,S.Kullander,A.Kupsc,A.Kuzmin,  
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 V.Tchernyshev,M.Waters,Z.Wilhelmi,J.Zabierowski,J.Zlomanczuk  
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- A43) **The  $pp \rightarrow pp\eta$  reaction near the kinematical threshold**  
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- A44) **A Signal of a Narrow  $\pi NN$  Resonance in  $pp \rightarrow pp\pi^- \pi^+$**   
 R.Bilger,W.Brodowski,H.Calén,H.Clement,C.Ekström,K.Föhl,K.Fransson,  
 L.Gustafsson,S.Hägström,B.Höistad,A.Johansson,T.Johansson,K.Kilian,  
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- A45) **Detector Setup for a Storage Ring with an Internal Target**  
 H.Calén,S.Carius,K.Fransson,L.Gustafsson,S.Hägström,B.Höistad,  
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 T.Purlatz,B.Schwartz,V.Sidorov,A.Sukhanov,A.Kupsc,P.Marcieniewski,  
 A.Nawrot,J.Stepaniak,D.Bogoslawsky,V.Dunin,A.Kuznetsov,B.Morosov,  
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### **Antiväte – en blick in i antivärlden?**

T. Johansson

Kosmos 1997, 73.

### **Hadrons**

T. Johansson

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