

# Antonino Zichichi

## List of Publications - Elenco dei Lavori

1. **A PROBABLE EXAMPLE OF THE PRODUCTION AND DECAY OF A NEUTRAL TAU-MESON**  
W.A. Cooper, H. Filthuth, J.A. Newth, G. Petrucci, R.A. Salmeron and A. Zichichi  
*Nuovo Cimento* 4, 1433 (1956).
2. **EXAMPLES OF THE PRODUCTION OF ( $K^0$ ,  $K^0$ ) AND ( $K^+$ ,  $K^0$ ) PAIRS OF HEAVY MESONS**  
W.A. Cooper, H. Filthuth, J.A. Newth, G. Petrucci, R.A. Salmeron and A. Zichichi  
*Nuovo Cimento* 5, 1388 (1957).
3. **LIFE TIME ESTIMATE OF  $\Lambda^0$  AND  $\theta^0$  PARTICLES**  
C. Ballario, R. Bizzarri, B. Brunelli, A. de Marco, E. di Capua, A. Michelini, G.C. Moneti, B. Zavattini and A. Zichichi  
*Nuovo Cimento* 6, 994 (1957).
4. **COSMIC RAY RESEARCH (PROPOSAL FOR A NEW HIGH ENERGY EXPERIMENT)**  
H. Filthuth, J.A. Newth, G. Petrucci, R.A. Salmeron and A. Zichichi  
CERN Scientific Policy Committee Document CERN/SPC/52, 21 October 1957.
5. (a) **NEUTRAL V-PARTICLE FROM COPPER AND CARBON**  
W.A. Cooper, H. Filthuth, L. Montanet, J.A. Newth, G. Petrucci, R.A. Salmeron and A. Zichichi  
*Nuovo Cimento* 8, 471 (1958).  
  
(b) **NEUTRAL V-PARTICLES FROM COPPER AND CARBON**  
W.A. Cooper, H. Filthuth, L. Montanet, J.A. Newth, G. Petrucci, R.A. Salmeron and A. Zichichi  
Proceedings of the International Conference on "Mesons and Recently Discovered Particles", Padua, Italy, 22-28 September 1957 (Borghero, Padua, 1958), VIII-8.
6.  **$\Lambda^0$ - AND  $\theta^0$ -PARTICLES PRODUCED IN IRON**  
G. Alexander, C. Ballario, R. Bizzarri, B. Brunelli, E. di Capua, A. Michelini, G.C. Moneti and A. Zichichi  
*Nuovo Cimento* 9, 624 (1958).
7. **A CLOUD CHAMBER STUDY OF NUCLEAR INTERACTIONS WITH ENERGIES OF ABOUT 100 GeV**  
L. Montanet, J.A. Newth, G. Petrucci, R.A. Salmeron and A. Zichichi  
*Nuovo Cimento* 17, 166 (1960).
8. **A METHOD FOR TRAPPING MUONS IN MAGNETIC FIELDS, AND ITS APPLICATION TO A REDETERMINATION OF THE EDM OF THE MUON**  
G. Charpak, L.M. Lederman, J.C. Sens and A. Zichichi  
*Nuovo Cimento* 17, 288 (1960).
9. **THE ANOMALOUS MAGNETIC MOMENT OF THE MUON**  
G. Charpak, F. Farley, R.L. Garwin, T. Muller, J.C. Sens, V.L. Telegdi, C.M. York and A. Zichichi  
Proceedings of the International Conference on "High-Energy Physics", Rochester, NY, USA, 25 August-1 September 1960 (Rochester Univ., 1960), 778.
10. **ACCELERATED CLOCKS**  
A. Zichichi  
CERN Memorandum 251/NP/kw, 19 January 1961.

11. **MEASUREMENT OF THE ANOMALOUS MAGNETIC MOMENT OF THE MUON**  
G. Charpak, F.J. Farley, R.L. Garwin, T. Muller, J.C. Sens, V.L. Telegdi and A. Zichichi  
*Physical Review Letters* 6, 128 (1961).
12. **QUENCHING OF MUON DEPOLARIZATION BY WEAK MAGNETIC FIELDS**  
G. Charpak, F.J. Farley, R.L. Garwin, T. Muller, J.C. Sens, V.L. Telegdi, C.M. York and A. Zichichi  
*Nuovo Cimento* 22, 199 (1961).  
Presented by A. Zichichi at the Annual Meeting of the Italian Physical Society (Naples, September 1960).
13. **A NEW LIMIT TO THE ELECTRIC DIPOLE MOMENT OF THE MUON**  
G. Charpak, F.J. Farley, R.L. Garwin, T. Muller, J.C. Sens and A. Zichichi  
*Nuovo Cimento* 22, 1043 (1961).
14. **PROTON-ANTIPROTON ANNIHILATION INTO ELECTRONS, MUONS AND VECTOR BOSONS**  
A. Zichichi and S.M. Berman, N. Cabibbo and R. Gatto  
*Nuovo Cimento* 24, 170 (1962).
15. **A NEW MEASUREMENT OF THE ANOMALOUS MAGNETIC MOMENT OF THE MUON**  
G. Charpak, F.J. Farley, R.L. Garwin, T. Muller, J.C. Sens and A. Zichichi  
*Physics Letters* 1, 16 (1962).
16. **A MEASUREMENT OF THE  $\mu^+$  LIFETIME**  
F.J. Farley, T. Massam, T. Muller and A. Zichichi  
Proceedings of the International Conference on "High-Energy Physics", Geneva, Switzerland, 4-11 July 1962 (CERN, Geneva, 1962), 415.
17. **(g-2) AND ITS CONSEQUENCES**  
G. Charpak, F.J. Farley, R.L. Garwin, T. Muller, J.C. Sens and A. Zichichi  
Proceedings of the International Conference on "High-Energy Physics", Geneva, Switzerland, 4-11 July 1962 (CERN, Geneva, 1962), 476.
18. **EXPERIMENTAL OBSERVATION OF SOME REGULARITIES IN  $\mu^+$  REPOLARIZATION**  
S. Gorodetzky, T. Muller, M. Port and A. Zichichi  
*Physics Letters* 2, 133 (1962).
19. **THE 1/2 Mc PUZZLE AND THE PRESENT EXPERIMENTAL STATUS OF QUANTUM ELECTRODYNAMICS**  
A. Zichichi  
Lecture given at the "Enrico Fermi" International School of Physics, Varenna, Italy, August 1962.
20. **PROPRIETÀ DELLE PARTICELLE ELEMENTARI**  
A. Zichichi  
*Supplemento al Nuovo Cimento* 1, 11 (1963).  
Presented by A. Zichichi at the Annual Meeting of the Italian Physical Society (Bologna, 9-14 September 1962).
21. **ALCUNE CONSIDERAZIONI SULLA RIPOLARIZZAZIONE DEI  $\mu^+$**   
S. Gorodetzky, T. Muller, M. Port and A. Zichichi  
*Supplemento al Nuovo Cimento* 1, 372 (1963).
22. **SEARCH FOR THE TIME-LIKE STRUCTURE OF THE PROTON**  
M. Conversi, T. Massam, Th. Muller and A. Zichichi  
*Physics Letters* 5, 195 (1963).

23. **A TELESCOPE TO IDENTIFY ELECTRONS IN THE PRESENCE OF PION BACKGROUND**  
T. Massam, Th. Muller and A. Zichichi  
CERN Report 63-25, 27 June 1963.
24. **AN EXPERIMENT ON THE TIME-LIKE ELECTROMAGNETIC STRUCTURE OF THE PROTON**  
M. Conversi, T. Massam, Th. Muller and A. Zichichi  
Proceedings of the International Conference on "Elementary Particles", Siena, Italy, 30 September-5 October 1963 (SIF, Bologna, 1964), Vol. 1, 488.
25. (a) **A MEASUREMENT OF THE  $e^+$  POLARIZATION IN MUON DECAY: THE  $e^+$  ANNIHILATION METHOD**  
A. Buhler, N. Cabibbo, M. Fidecaro, T. Massam, Th. Muller, M. Schneegans and A. Zichichi  
*Physics Letters* 7, 368 (1963).
- (b) **A MEASUREMENT OF THE  $e^+$  POLARIZATION IN MUON DECAY**  
A. Buhler, N. Cabibbo, M. Fidecaro, T. Massam, Th. Muller, M. Schneegans and A. Zichichi  
Proceedings of the International Conference on "Elementary Particles", Siena, Italy, 30 September-5 October 1963 (SIF, Bologna, 1964), Vol. 1, 56.
26. **ARE NEUTRAL LEPTON CURRENTS COUPLED IN NATURE?**  
T. Massam, Th. Muller and A. Zichichi  
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27. **PROTON ANTIPROTON ANNIHILATION INTO MUON PAIR**  
M. Conversi, T. Massam, Th. Muller, M. Schneegans and A. Zichichi  
Proceedings of the International Conference on "High-Energy Physics", Dubna, USSR, 5-15 August 1964 (Atomizdat, Moscow, 1966), Vol. I, 857.
28. **OBSERVATION OF MUONIUM FORMATION IN PLASTIC SCINTILLATOR AT LIQUID NITROGEN TEMPERATURE**  
A. Buhler, T. Massam, Th. Muller, M. Schneegans and A. Zichichi  
Proceedings of the International Conference on "High-Energy Physics", Dubna, USSR, 5-15 August 1964 (Atomizdat, Moscow, 1966), Vol. I, 944.
29. **ATTUALE STATO DELLA FISICA DELLE INTERAZIONI DEBOLI**  
A. Zichichi  
*Supplemento al Nuovo Cimento* 3, 894 (1965).
30. (a) **RANGE MEASUREMENTS FOR MUONS IN THE GeV REGION**  
A. Buhler, T. Massam, Th. Muller and A. Zichichi  
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- (b) **RANGE MEASUREMENTS FOR MUONS IN THE GeV REGION**  
A. Buhler, T. Massam, Th. Muller and A. Zichichi  
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31. (a) **CERN WORK ON WEAK INTERACTIONS**  
A. Zichichi  
*Proceedings of the Royal Society* 285A, 175 (1965).
- (b) **CERN WORK ON WEAK INTERACTIONS**  
A. Zichichi  
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32. **THE ANOMALOUS MAGNETIC MOMENT OF THE MUON**  
G. Charpak, F.J. Farley, R.L. Garwin, Th. Muller, J.C. Sens and A. Zichichi  
*Nuovo Cimento* 37, 1241 (1965).

33. (a) **A HIGH-INTENSITY, PARTIALLY SEPARATED, BEAM OF ANTIPROTONS AND  $K$ -MESONS**  
G. Brautti, G. Fidecaro, T. Massam, M. Morpurgo, Th. Muller, G. Petrucci, E. Rocco, P. Schiavon, M. Schneegans and A. Zichichi  
*Nuovo Cimento* 38, 1861 (1965).
- (b) **A HIGH INTENSITY ENRICHED BEAM OF KAONS AND ANTIPROTONS**  
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34. **EXPERIMENTAL OBSERVATION OF ANTIDEUTERON PRODUCTION**  
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35. **THE TIME-LIKE FORM FACTOR OF THE NUCLEON AND ITS CONSEQUENCES ON THE EXPERIMENTS WITH COLLIDING ELECTRON-POSITRON BEAMS**  
M. Conversi, T. Massam, Th. Muller and A. Zichichi  
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36. **A NEW ELECTRON DETECTOR WITH HIGH REJECTION POWER AGAINST PIONS**  
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37. **STUDY OF THE QUENCHING OF MUON DEPOLARIZATION IN SEVERAL MATERIALS AS A FUNCTION OF EXTERNALLY APPLIED MAGNETIC FIELDS**  
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38. **MEASUREMENTS OF MUON DEPOLARIZATION IN SEVERAL MATERIALS**  
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*Nuovo Cimento* 39, 824 (1965).  
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39. **AN UPPER LIMIT TO THE EXISTENCE OF CHARGES  $(\frac{2}{3})e$  IN THE COSMIC RADIATION AT 500 m ABOVE SEA LEVEL**  
T. Massam, Th. Muller and A. Zichichi  
*Nuovo Cimento* 40, 589 (1965).  
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40. **THE LEPTONIC ANNIHILATION MODES OF THE PROTON-ANTIPROTON SYSTEM AT  $6.8 \text{ (GeV/c)}^2$  TIMELIKE FOUR-MOMENTUM TRANSFER**  
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41. **LEPTONIC VERSUS HADRONIC QUARKS**  
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42. **A ONE-PARAMETER FIT TO THE ELECTROMAGNETIC FORM FACTORS OF THE NUCLEON**  
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43. **A DETERMINATION OF THE  $(\omega - \varphi)$  MIXING ANGLE USING NUCLEON ELECTROMAGNETIC FORM FACTORS**  
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44. **SEARCH FOR CHARGES  $\frac{1}{3}e$  AND  $\frac{2}{3}e$  IN THE COSMIC RADIATION**  
A. Buhler-Broglin, G. Fortunato, T. Massam, Th. Muller and A. Zichichi  
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45. **RECENT DEVELOPMENTS OF PARTICLE SYMMETRIES**  
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46. **AN EXPERIMENTAL PROPOSAL TO MEASURE THE PRODUCTION OF  $(e^+e^-)$  PAIRS FROM TIME-LIKE PHOTONS PRODUCED IN PION-NUCLEON INTERACTIONS**  
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47. **A REVIEW OF RECENT PROGRESS IN THE PHYSICS OF COLLIDING  $(e^+e^-)$  BEAMS AND THE DESCRIPTION OF SOME EXPERIMENTAL RESULTS RELEVANT TO THE DESIGN OF A FAST TRIGGERING SYSTEM TO DETECT THE TWO-BODY ANNIHILATION PROCESSES**  
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48. **EXPERIMENTAL INVESTIGATIONS PROPOSED FOR "ADONE"**  
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49. **A PROPOSAL TO SEARCH FOR LEPTONIC QUARKS AND HEAVY LEPTONS PRODUCED BY ADONE**  
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50. **EXPERIMENTAL EVIDENCE AGAINST THE EXISTENCE OF THE  $S^0$ -MESON**  
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52. **A STUDY OF THE FRACTIONAL CHARGE CONTENT OF THE COSMIC RADIATION**  
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53. **A SUMMARY OF ALL QUARKS EXPERIMENTS**  
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55. **OBSERVATION OF THE RARE DECAY MODE OF THE  $\varphi$ -MESON:  $\varphi \rightarrow e^+e^-$**   
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56. **THE DECAY MODE  $\omega \rightarrow e^+e^-$  AND A DIRECT DETERMINATION OF THE  $\omega - \varphi$  MIXING ANGLE**  
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57. **AN UNDERGROUND SEARCH FOR LEPTONIC QUARKS IN THE COSMIC RADIATION**  
L. Briatore, C. Castagnoli, D. Bollini, T. Massam, F. Palmonari and A. Zichichi  
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59. **QUARK SEARCH AT THE I.S.R.**  
T. Massam and A. Zichichi  
Presented at the ISR Users' Meeting, CERN, Geneva, Switzerland, 10-11 June 1968.
60. **NUCLEON ELECTROMAGNETIC FORM FACTORS: EVIDENCE FOR  $q^{-6}$  DEPENDENCE**  
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*Nuovo Cimento* 60A, 541 (1969).
62. (a) **A NEW LARGE-ACCEPTANCE AND HIGH-EFFICIENCY NEUTRON DETECTOR FOR MISSING-MASS STUDIES**  
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- (b) **UN DÉTECTEUR DE NEUTRONS POUR LA SPECTROMÉTRIE DE MASSES MANQUANTES**  
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63. **UN GRAND DÉTECTEUR E.M. A HAUTE RÉJECTION DES PIONS**  
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65. **THE BASIC SU<sub>3</sub> MIXING:  $\omega_8 \leftrightarrow \omega_1$**   
A. Zichichi  
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66. **ACCURATE POSITION DETERMINATION OF PARTICLE TRAJECTORIES USING PLASTIC SCINTILLATOR COUNTERS**  
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70. **MEASUREMENT OF THE  $X^0$  CROSS-SECTIONS IN  $\pi^-p$  INTERACTIONS AT 1.6 GeV/c AND DETERMINATION OF THE BRANCHING RATIO  $(X^0 \rightarrow \text{NEUTRALS}) / (X^0 \rightarrow \text{TOTAL})$**   
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72. **AN APPARATUS OF THE NBC TYPE AND THE PHYSICS RESULTS OBTAINED**  
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73.  **$\omega-\rho$  INTERFERENCE IN  $\pi^-p$  INTERACTIONS AT 1.67 GeV/c**  
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Proceedings of the International Conference on "Meson Resonances and Related Electromagnetic Phenomena", Bologna, Italy, 14-16 April 1971 (Editrice Compositori, Bologna, 1972), 139.
74. (a) **THE DECAY MODE  $X^0 \rightarrow \gamma\gamma$  AND THE FIRST DETERMINATION OF THE BRANCHING RATIO  $X^0 \rightarrow \gamma\gamma / X^0 \rightarrow \text{TOTAL}$**   
M. Basile, D. Bollini, P. Dalpiaz, P.L. Frabetti, T. Massam, F. Navach, F.L. Navarra, M.A. Schneegans and A. Zichichi  
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- (b) **FURTHER EVIDENCE FOR THE DECAY MODE  $X^0 \rightarrow \gamma\gamma$  AND DETERMINATION OF THE BRANCHING RATIO  $X^0 \rightarrow \gamma\gamma / X^0 \rightarrow \text{TOTAL}$**   
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75. **EVIDENCE FOR THE NEW DECAY MODE  $\varphi \rightarrow \eta\gamma$**   
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76. **PROOF OF HADRON PRODUCTION IN  $(e^+e^-)$  INTERACTIONS**  
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77. **EXPERIMENTAL CHECK OF CROSSING SYMMETRY IN THE ELECTROMAGNETIC INTERACTION OF LEPTONS**  
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 L3 Collaboration: M. Acciarri, ... and [A. Zichichi](#)  
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