

Individual Ordinary Members

The following have been accepted as Individual Ordinary Members :

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J. Amiel, Paris
G. Amsel, Paris
J.-J. André, Strasbourg
P. Armbruster, Darmstadt
A. Ascoli, Milan
L. Avan, Clermont-Ferrand
R. Bacis, Ecully
Ch. Becle, St-Nazaire
C. Benoit-à-la Guillaume, Soisy
D. Berényi, Debrecen
R. Bergère, Bures-sur-Yvette
E. Berthier, Paris
B.D. Bhattacharyya, Calcutta
J. Bisplinghoff, Meckenheim-Merl
A. Blanc, Gif-sur-Yvette
S. Bliman, Grenoble
G.J.F. Blommestijn, Amstelveen
D. Blum, Boulogne
A. Bockisch, Cologne
P. Bonnet, Le Barp
G. Bordure, Montpellier
K. Bos, Amsterdam
D. Breton, Montrouge
M. Briand, Antony
P. Brissonneau, Grenoble
J. Brochard, Paris
G. Bruge, Orsay
V. Buch-Andersen, Versailles
J. Cabe, Talaut
C. Camy-Peyret, Paris
C. Carabatos, Metz
D. Cartianu, Bucharest
J. Castor, Aubière
J. Cessac, Versailles
Y. Chabre, Grenoble
G. Champier, Nancy
J. Chanu, Paris
A. Chappert, Paris
M. Chevreton, Lyon
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H.-A. Combet, Lannion
F. Combet-Farnoux, Orsay
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M. Cordier, Paris
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D. Cribier, Sceaux
L. Dagens, Paris
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H. Danan, Strasbourg
P.K.A. David, Bonn
J. Dayantis, Strasbourg
J. de Boer, Heerhugowaard
P.P.J. Delheij, Alkmaar
F. Delpech, Limours
Ch. De Novion, Fontenay-aux-Roses
M.J.A. de Voigt, Uithuizermeeden
H. de Vries, Bussum
H.F. de Vries, Nieuwegein
H. de Waard, Groningen
P.K.A. de Witt Huberts, Amsterdam
G.H.F. Diercksen, Munich
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A. Dupas, Gif-sur-Yvette
J. Dupont-Roc, Paris
H. Durand, Limeil-Brevannes
P. Durandau, Toulouse
R.J. Elsenaar, Utrecht
P. Encrenaz, Gif-sur-Yvette
G.A.P. Engelbertink, Amersfoort
J.-L. Escudie, Igny
C. Etievant, Versailles
H. Fagot, Saint-Louis
Y. Farge, Palaiseau
R. Floux, Brévannes
J. Fornazero, Ecully
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L. Gaudart, Marseille
A. Gauvenet, Bourg-la-Reine
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A. Gervat, Les Clayes-sous-Bois
A. Gonçalves, Paris
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M. Grosmann, Strasbourg
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L. Guyot, Conflans
J. Haissinski, Orsay
R. Hall, Paris
B. Harvey, Berkeley
H. Hebach, Witten-Herbode
A.C. Heemskerck, Groningen
N. Heidmann, Neuilly
V.O.G. Heil, Darmstadt
K. Heinloth, Odendorf
J.A.J. Hermans, Utrecht
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J. Hue, St-Max
J.-C. Jacmart, Orsay
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P. Jahn, Jülich
M. Jessel, Marseille
J. Joffrin, Bures-sur-Yvette
F. Joly, Talence
J.-C. Jousset, Fontenay-aux-Roses
A. Kekeh, Lome
A.S. Keverling Buisman, Groningen
M. Kleman, Orsay
K.-T. Knöpfle, Grosssachsen
B.K.S. Koene, Upton
J.E. Koops, Utrecht
P. Kopec, Paris
A. Kovacs, Strasbourg
A. Kuhn, Paris
J. Kuzminski, Katowice
J. Labbé, Paris
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P. Lavallard, Sceaux
D. Lecler, Caen
M. Leneke, Bonn
R. Lennuier, Paris
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D. Levesque, Orsay
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K.H. Maier, Berlin
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S.A. Martin, Jülich
R. Marx, Orsay
L. Massonnet, Clamart
V. Mastrangelo, Paris
K. Matho, Sassenage
C.U. Mayer-Böricke, Jülich
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M. Mermaz, Gif-sur-Yvette
G. Metzger, Kingersheim
V. Meyer, Zurich
R. Michel, Cologne
H. Morgenstern, Berlin
G. Munschy, Strasbourg
W. Neumann, Münster
W. Niehaus, Bonn
Th. Niemeijer, Vleuten
H. Nifenecker, Chilly Mazarin
G. Nouchy, Talence
W. J. Ockels, Pieterzijl
M. Odier, Amiens
R. Omnes, Meudon
J. Oms, Rome
M.O. Ottosson, Strasbourg
J. Parain, Chateay-Malabry
J. Pascale, Gif-sur-Yvette
M. Pautrat, Orsay
J.-C. Pebay-Peyroula, Grenoble
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A. Perrin, Gradignan
E. Petelski, Stockholm
A. Pilon, St-Cloud
P. Pluvinage, Besançon
B. Pope, Geneva
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P. Prugne, Orsay
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D. Raoul, Angers
G. Rasigni, Marseille
M. Redoute, St Maur
R. Reich, Chateay-Malabry
P. Ribon, Bures-sur-Yvette
Y. Rihet, Alger
P. Ring, Garching
J. Robieux, Marcoussis
M. Roche, Dijon
M. Rodot, Meudon
C. Rolfs, Münster
M. Roth, Grenoble
C. Roulet, Orsay
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R. Seltz, Strasbourg
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G. Setti, Bologna
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Ph.B. Smith, Groningen
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D. Spaargaren, Bussum
R. Spanhoff, Groningen
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F. Stecher-Rasmussen, Bergen
E. Steffens, Weinheim
G. Stora, Ville d'Avray
F. Teissier Du Cros, Paris
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A. Toureille, Montpellier
Tran Minh Duc, Villeurbanne
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E. van der Voort, Ispra
S.Y. van der Werf, Roden
A. van der Woude, Haren
M. Vandevyver, Chateay-Malabry
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P. Vasseur, Massy
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Evidence for Charm

The number of candidates following the expected behaviour pattern of charmed particles had by January climbed into double figures. Before the New Year, CERN had announced the identification of three such events and the Fermilab in the USA has now brought its score up to eight. The CERN experiment was performed by a team of physicists from seven European laboratories in the heavy liquid bubble chamber, Gargamelle, filled

with propane; the Fermilab experiment in their 14-foot chamber filled with a hydrogen-neon mixture.

The particle reactions that have created this latest excitement in the high energy physics field are of the type where a neutrino interacts with a nucleon and, in addition to giving the usual muon and mesons, produces also another lepton as well as a neutral strange particle (detected by its subsequent decay into two charged particles).

The most attractive explanation of the decay pattern is that the second lepton and the strange particle have come from the decay of a charmed particle, the existence of which was postulated some two years ago. These results arriving so rapidly after the discovery towards the end of 1974 of the long-lived family of heavy particles — the J-psi series — gives a strong boost to the theory that four quarks, not three, form the basic building bricks of matter.