

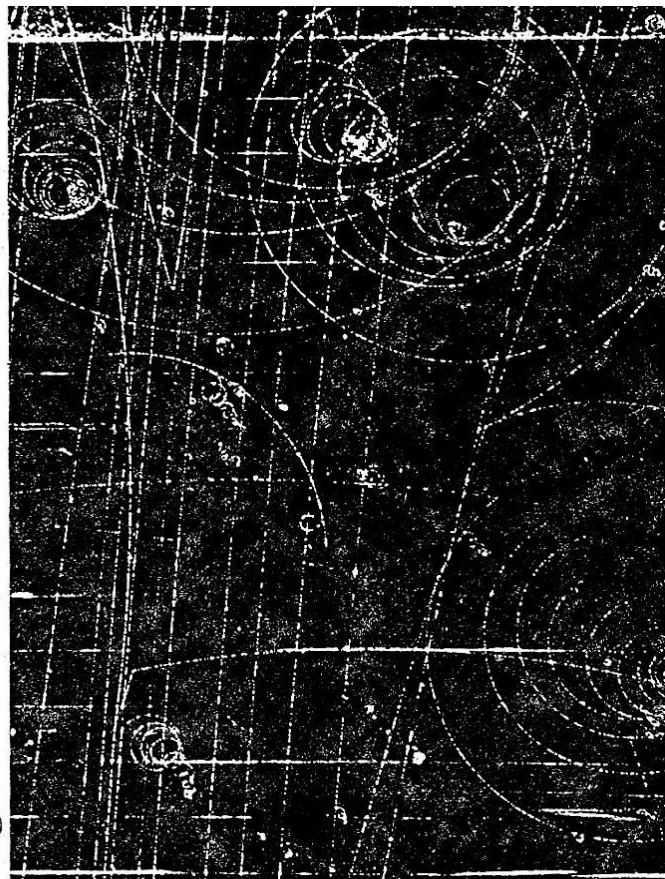
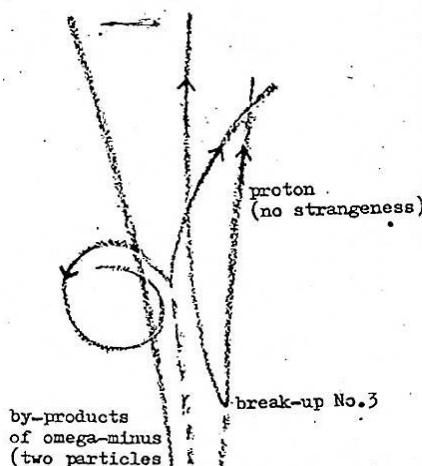
SPHERES OF INFLUENCE

Dance performance for open space

Written and directed by Terry W. Scales
Manchester International Youth Year 1985

A fable based on sub-particle physics and an allegory of our time

The discovery of the omega-minus particle, appearing briefly near the bottom of the bubble-chamber photograph. This is one of the most celebrated pictures in the history of physics, because it confirmed that the patterns of particles being offered by Murray Gell-Mann and others had real meaning. It was predicted as a heavy particle that would survive long enough to leave a track in a bubble chamber, and would have three doses of 'strangeness'. In February 1964, Nicholas Samios and his colleagues at the Brookhaven National Laboratory found this picture among their bubble-chamber results.



The photograph shows the omega-minus leaving a short track, breaking up in three stages (shedding one dose of strangeness on each occasion) and finishing up as a proton.

*David Townsend Jones' scientific interpretation of the book
The Key to the Universe by Nigel Calder.*

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*“Me, as I am, I do not establish the rules, but I play my part,
March to the tune and dance the dance, following the laws that govern
the order of the day,
In the hope that I may remain recognisably me for just a little longer...”*

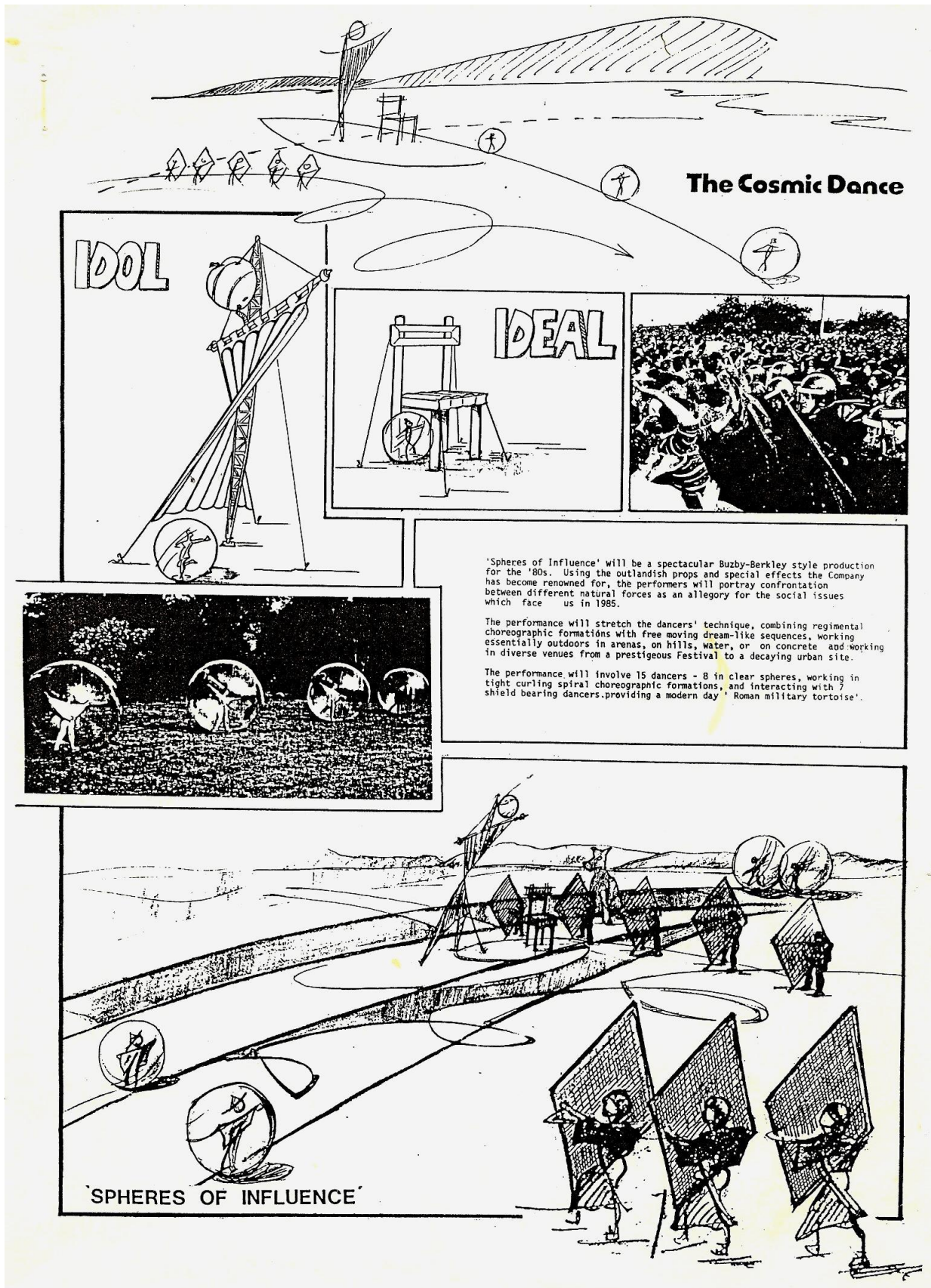
...chorused the Leptons and the Quarks as they sang their refrain to the ever quickening rhythm of the Electric Force, until they could no longer resist the urge; the hydrogen atom split and another sun was born.

There are always collisions occurring in the cosmic dance of creation and destruction, a fact that cannot be denied. Such collisions are taking place at all levels of energy, creating new balances of order and change, as particles transfer their allegiances under the ever present influences of the Cosmic Forces of the apocalypse.

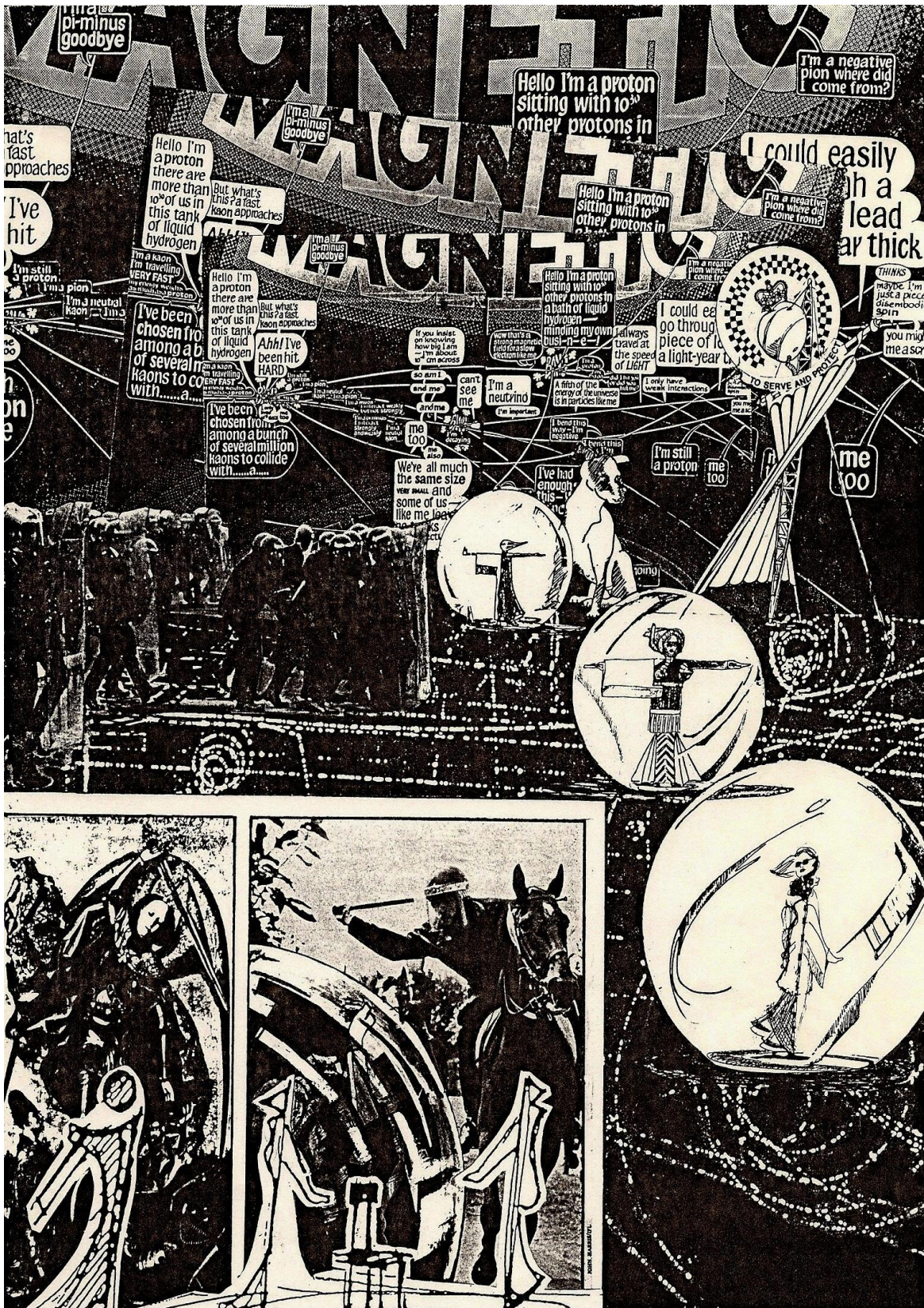
From the microcosm of the protons, neutrons, and the electrons of the atomic structure of durable matter, out of which we are made and which we can view daily in the slowly stewing state of life on our planet, to the macrocosm of star quakes and black holes, where exploding suns of energy interaction are the norm of the cosmic soup.

Our local dance is a slow variation on a cosmic theme.

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From an original concept, design and illustrations by Terry W Scales.

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Choreography: Maxine Thomas dance lecturer at Loretto College.

Soundtrack: Jamie Nicholson, science graduate Manchester University

Set Construction: Lee Pearson and Sarah Ennion at Manchester Arts & Technology Workshop



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Costumes designed and created by Christine Hughes of Gorton.

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The Partners in the Dance



THE QUARKS, who move with formality within the nucleus of our microcosm of life and who, by nature, are the guardians against change, upholders of law and order, obsessed with power and stability.



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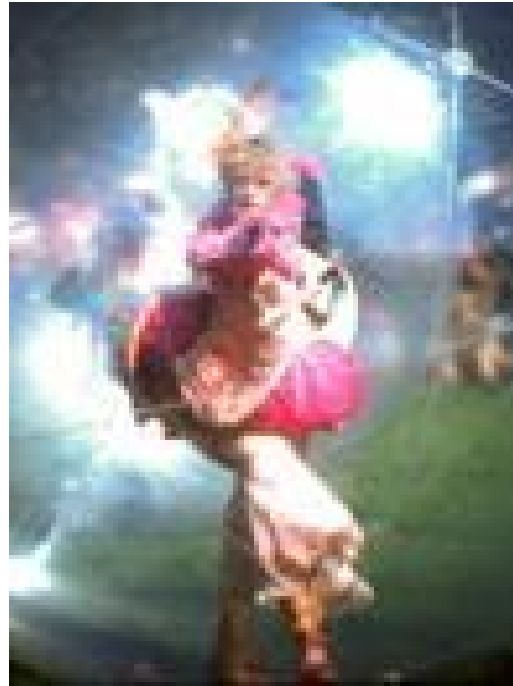


THE LEPTONS are clear spheres of encapsulated individuality who, by influence, govern the behaviour of all the atoms in our universe. They are depicted as the 16th century, five inward wits of Man: *sense, imagination, fantasy, estimation and memory.*



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Sense: Sensuality



Imagination: Science and industry (cybernetic)



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Fantasy: Imagination united with judgement (the Dodo)



Estimation: time, space and the spectrum of measurement. (Proportionality)



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Memory: the wit of recalling past events; our innocence of youthfulness and desire for harmony. (Adam and Eve)



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