

LAPTH

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July 31, 2009

Dr. I. Jack
Theory Division
Dept. of Mathematical Sciences
University of Liverpool
Liverpool
L69 3BX
Angleterre

Dear Dr. Jack,

I am writing to apply for a post-doctoral research position. My current employment at LAPTH will finish at the end of September 2004, so I am seeking another job to start on 1 October 2004.

I have enclosed my curriculum vitae, and as you can see my main research area is beyond the Standard Model phenomenology and model building. Recently, this work has become close to studies at future colliders, particularly the LHC. I am also interested in the overlap between this work and the dark matter problem, and intend to start looking into constraints on supersymmetric models coming from the dark matter content of the universe. Exciting new theoretical frameworks which address unsolved problems in particle physics (such as the technical hierarchy problem) are proliferating in the literature. I believe that much work is required now to examine how these models might be detected in experiments, and to develop strategies to experimentally discriminate the various possibilities. Most importantly, I am interested in looking at new data (for example from the Tevatron) that significantly disagrees with a Standard Model interpretation. Trying to find a reasonable new physics explanation and devising additional tests is an excellent way to search for new physics. This strategy has led to several recent papers based on a supersymmetric explanation of a Tevatron Run I $\mu\gamma$ missing transverse energy anomaly. Run II data is eagerly awaited to test our resonant-slepton production hypothesis.

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Yours sincerely

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Prof. Graham Ross,
Theoretical Physics
1 Keble Road
Oxford
OX1 3NP
Angleterre

July 31, 2009

Dear Prof. Ross,

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P. Binetruy
Laboratoire de Physique Theorique et Hautes Ener-
gies
Universite de Paris XI
Batiment 210
F-91405 Orsay Cedex
France

Dear Prof. Binetruy,

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P. Minkowski
Institute of Theoretical Physics
Sidlerstrasse 5
CH-3012 Bern
Suisse

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Dear Prof. Minkowski,

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M. Shaposhnikov
Institute of Theoretical Physics
University of Lausanne
CH-1015
Lausanne
Suisse

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Dear Prof. Shaposhnikov,

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Z. Kunszt
Institute of Theoretical Physics
ETH Honggerberg
HPZ G 14.3
CH-8093 Zurich
Suisse

July 31, 2009

Dear Prof. Kunszt,

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Prof. Deredinger
Institut de Physique Theorique
1 rue Breguet
CH-2000 Neuchatel
Suisse

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Prof. Ruth Durrer
24 quai E. Answermet
1211 Geneve 4
Suisse

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Dear Prof. Durrer,

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Prof. Aldo Deandrea
Batiment Paul Dirac
Universite Claude Bernard Lyon-1
Domaine Scientifique de la Doua
4, rue Enrico Fermi
69622 Villeurbanne cedex, FRANCE
Lyon

Dear Prof. Deandrea,

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Prof. R. Minasian
Centre de Physique théorique
École Polytechnique
91128 Palaiseau
France

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Prof. C. Kounnas
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École Normale Supérieure
24, rue Lhomond
75321 Paris Cedex 05
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