

纪念张宗燧先生诞辰 一百周年专题



图1 张宗燧



▲图2 20世纪50年代，张宗燧（后排左2）及其家人合影（前排左2为其父张东荪，左3为其母吴绍鸿）



▶图3 20世纪50年代，张宗燧兄妹4人合影（左起：张宗颖、张宗燧、张宗焯、张宗炳）



图4 1938年10月玻尔所全体成员合影（前排右1为张宗燧，左7为N. Bohr，左4为Wick，右3为Møller）

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◀图5 张宗燧（右）与胡宁在欧洲

▶图6 1957年6月，北京师范大学理论物理进修班毕业合影（第一排左3为喀兴林，左6为苏什金、左7为张宗燧，三排右1为李申生）



▼图7 1958年8月青岛场论及基本粒子讲座参加者合影（2排右8为张宗燧，右6为朱光亚，右5为朱洪元）



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▶图8 1963年秋，张宗燧与他的研究生在颐和园合影（左起：朱重远、张宗燧、侯伯宇、戴元本）



▲图9 1963年秋，数学所理论物理室全体成员游颐和园时合影（右1为张宗燧）

▶图10 1964年6月中国科技大学数学系理论物理班结业合影（中排左4为张宗燧）

▼图11 1964年1月数学所量子场论讨论班全体参加者合影（右6为张宗燧）



玻尔为张宗燧的“*Properties of mesons described by a pseudo-scalar wave functions*”（赝标波函数描述的介子的性质）一文（发表于《丹麦皇家科学院数学-物理杂志》1942年第19卷10期第1页）所写的附注：

（1）此文所报告的是张宗燧博士于1938~1939年在哥本哈根研究所逗留期间所完成的研究。在他离开后不久，张博士寄给了研究所此工作的一个文本。但是，随后，联系就由于战争而中断了。注意到由于介子理论最近的发展，张博士的结果已经受到了特别的关注，再推迟发表他的文章似乎是最与需要不符的。因此，穆勒博士和罗森塔尔博士慷慨地承担了将此文付印的准备工作，并补充了一个包含文献的理论现状的引言。尼尔斯·玻尔

（尹晓冬 供稿）

Introduction.⁽¹⁾

The development of the meson theory of nuclear forces has shown the necessity to introduce in the description of the meson field two kinds of wave-functions with the invariance properties of a vector and a pseudoscalar, respectively [1] [2]. In a recent paper [3], the writer has calculated the probability of some elementary processes involving mesons which are described by a vector wave-function and which, in the following, for brevity will be referred to as *V*-mesons. Since, however, the mesons represented by a pseudoscalar function (*PS*-mesons) appear on the same footing in the description of the nuclear forces and since they seem to play a preponderant part in the cosmic radiation available for experiment [4], it is of interest to investigate different processes involving such mesons. In particular, the determination of the lifetime of *PS*-mesons, performed in Section 5, is of importance in the discussion of the connection between the decay con-

(1) The investigation reported in this paper was carried out by Dr. Tsung-Sui Chang during his stay at the Institute of Theoretical Physics at Copenhagen in 1938-39. Shortly after his departure, an account of the work was sent by Dr. Chang to the Institute, but since then connection has been interrupted due to the war. In view of the special interest which the results of Dr. Chang's work have obtained as a consequence of recent development of the meson theory, a further delay in the publication of his paper seemed, however, most undesirable and, therefore, Dr. C. Møller and Dr. S. Rozental have kindly undertaken to prepare Dr. Chang's account for print and to furnish it with an introduction containing references to the present state of the theory. NIELS BOHR.