

## The Boundary States of the q-Deformed Supersymmetric t-J Model with a Boundary

YANG Wen-Li<sup>1,2</sup> and ZHEN Yi<sup>1</sup>

<sup>1</sup> Institute of Modern Physics, Northwest University, Xi'an 710069, China

<sup>2</sup> Physikalisches Institut der Universität Bonn, Nussallee 12, 53115 Bonn, Germany

(Received: 2001-1-9; Revised: )

Abstract: The q-deformed supersymmetric t-J model on a semi-infinite lattice is diagonalized by using the level-one vertex operators of the quantum affine superalgebra  $U_q[\widehat{\mathfrak{sl}}(2|1)]$ . We give the bosonization of the boundary states.

PACS: 03.65.Fd, 11.30.Pb, 11.10.S

Key words: quantum t-J model, bosonization, affine quantum algebra, boundary states

[\[Full text: PDF\]](#)

Close