

**V.3**  
**PhD Theses**

P. Calfayan:

**Search for Pair-Production of Second Generation Scalar Leptoquarks in  $p\bar{p}$  Collisions at the TeVatron**

T. Dorsch:

**Untersuchung von Cluster-Strukturen der neutronenreichen Sauerstoff-Isotope 180, 190 und 200 mit der ( ${}^7\text{Li,p}$ )-Reaktion**

P. Haefner:

**Measurement of the Top Quark Mass with the Matrix Element Method in the Semileptonic Decay Channel at D0**

G. Kroboth:

**Search for Second Generation Leptoquarks with ATLAS at the LHC**

M. Mahgoub:

**Neutron Transfer Reactions in the fp-shell Region**

R. Mameghani:

**Semi- und Dileptonic Top Pair Decays at the ATLAS Experiment**

T. Marrodán Undagoitia:

**Measurement of light emission in organic liquid scintillators and studies towards the search for proton decay in the future large-scale detector LENA**