

### Area Seminar

Title            Probing anomalous VZH interactions at ILC with polarized beams.

Date and        25/06/2010 16:00:00  
Time

Speaker        Pankaj Sharma  
                  Post Doctorate  
                  Physical Research Laboratory, Ahmedabad  
Area            Theoretical Physics  
Venue           Room No. 469

Abstract        In this talk, I will talk about how International Linear Collider (ILC) can be utilized to its full potential using polarization (longitudinal or transverse) of both electron and positron beams, which are expected to be available at the ILC, to probe anomalous VZH couplings, where V is electroweak neutral gauge bosons i.e., Z or photon, in the process  $e^+ e^- \rightarrow HZ$ . I will discuss the sensitivity of simple observables like forward backward asymmetry, azimuthal asymmetries and cross sections to these anomalous couplings using various combinations of beam polarizations.