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Hadi Salmasian* (salmasia@ualberta.ca), 632 Central Academic Building, Department of Mathematics and Statistics, University of Alberta, Edmonton, Alberta T6G2G1, Canada. *Direct limits of Schubert varieties and global sections of line bundles.*

Let G be a classical simple ind-group and B be a Borel subgroup of G . We consider certain B -stable subvarieties of the infinite dimensional flag variety G/B , which deserve to be called ind-Schubert varieties. Global sections of line bundles on ind-Schubert varieties play the role of Demazure modules in the infinite dimensional setting. Our main results concern weight multiplicities of these Demazure modules. (Received January 15, 2008)