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Abstract for an Invited Paper  
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**Flavor separation at large  $x$**

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I will discuss theoretical and phenomenological issues related to parton distribution extraction at large values of the parton fractional momentum  $x$  within the framework of global QCD fits. I will review recent results on up and down quarks, gluons and intrinsic heavy flavors, and the main theoretical uncertainties involved. I will highlight theoretical and experimental ways to improve their measurement.