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### **Equivalent norms and characterizations for vector-valued Function Spaces**

In this talk we consider vector-valued function spaces of Besov and Triebel-Lizorkin type and extend a theorem of Bui, Paluszyński and Taibleson and its proof by Rychkov to the vector-valued case. In particular, we focus on a minor modification of Rychkov's proof dealing with the question of characterizations. Eventually, we will give an outlook of the applications of the theorem leading to a representation of the vector-valued function spaces by atoms resp. quarks.