



User Selection Algorithm

For downlink DAS, we have to decide which Uts to be served up to number of Afs

Before User Selection:

- Every UT chooses the integer coefficients to maximize its own computation rate
- CP knows the set of integer coefficient vectors and the corresponding computation rates

User selection problem is formulated as **Maximization of linear function over Matroid constraint** \rightarrow A simple greedy algorithm is optimal

Conclusion

The proposed scheme is competitive when the wired backhaul R_0 is a limiting factor of the overall system sum rate

For example, in a typical home Wireless Local Area Network setting, the rates supported by the wireless segment are of the order of **10 to 50 Mbits/s**, while typical DSL connection between the wireless router and the DSL central office has rates between **1 and 10 Mbits/s**