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## To what extent does water content next to preferential flow paths influence colloid retention in structured soils

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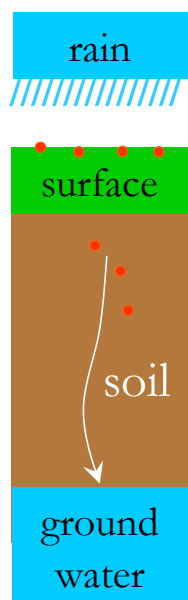


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# To what extent does water content next to preferential flow path influence **colloid retention in structured soils**?

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## 1- Colloid fate in soil impacts...



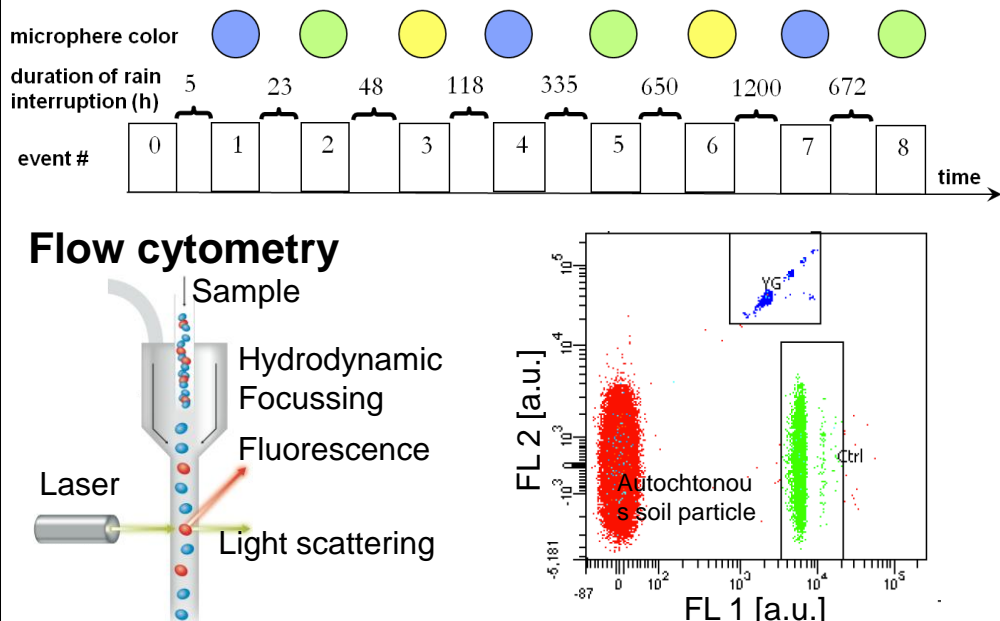
Water quality

Soil evolution

predictive models of particle fate

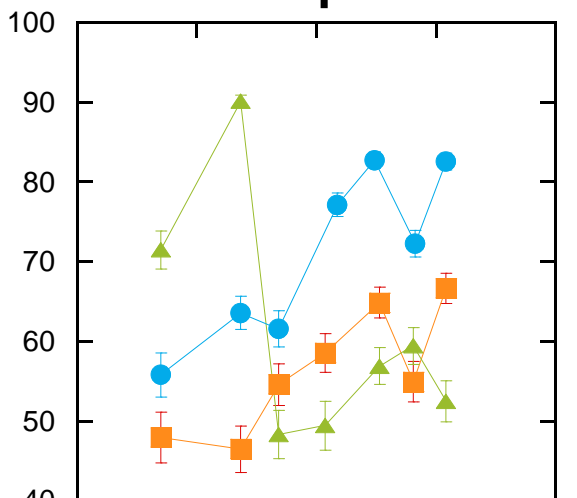
↑  
better understanding of mobilization & retention mechanisms

## 2- Successive rainfalls on undisturbed soil cores

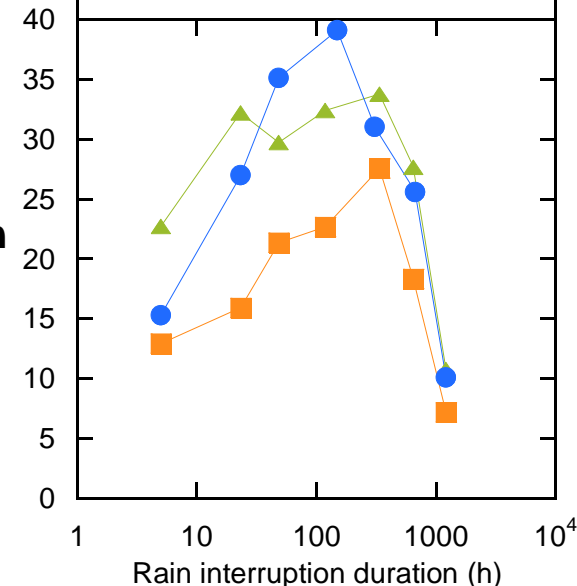


## 3- Duration of rain interruption affects:

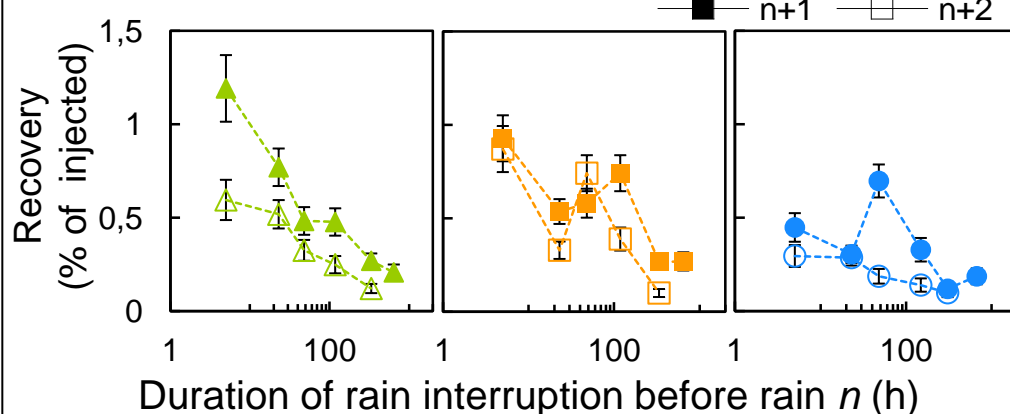
microsphere retention (% injected)



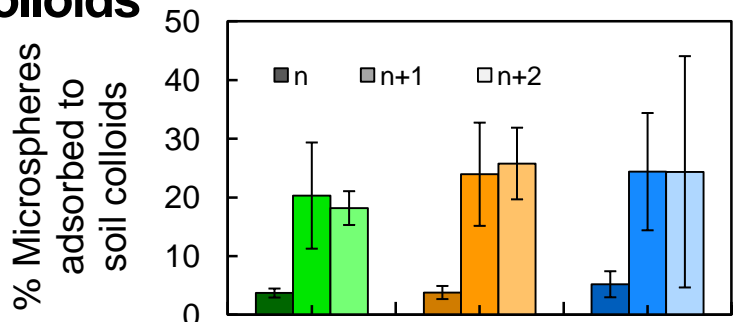
natural soil particle mobilization (mg)



## 4- Microspheres from rain $n$ recovered at rain $n+1$ and $n+2$



## 5- Microspheres are eluted adsorbed to soil colloids



## 6- Proposed mechanisms

