

Arithmetic and Algebraic Geometry: A conference in honor of Ofer Gabber
on the occasion of his 60th birthday

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Compatible systems along the boundary

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A theorem of Deligne says that compatible systems of l -adic sheaves on a smooth curve over a finite field are compatible along the boundary. I will present an extension of Deligne's theorem to schemes of finite type over the ring of integers of a local field, based on Gabber's theorem on compatible systems. This has applications to the equicharacteristic case of some classical conjectures on l -independence. I will also discuss the relationship with compatible wild ramification. This is joint work with Qing Lu.

Orateur: ZHENG, W. (Morningside Center of Mathematics)