



Contribution ID: 5

Type: **not specified**

## On the modularity of reducible mod $l$ Galois representations

*Tuesday, June 24, 2014 11:45 AM (1 hour)*

In this talk, I'll give a modularity result for reducible mod  $l$  Galois representations. By analogy with the irreducible case, I'll state some questions regarding characterization and optimization of the different types of modular forms attached to such a given representation. Finally, I'll give an application of these results to the determination of an explicit lower bound for the highest degree of the coefficient fields of newforms of prime level and trivial Nebentypus. This is a joint work with Ricardo Menares.

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**Session Classification:** Galois representations and modular forms

**Track Classification:** Galois representations and modular forms