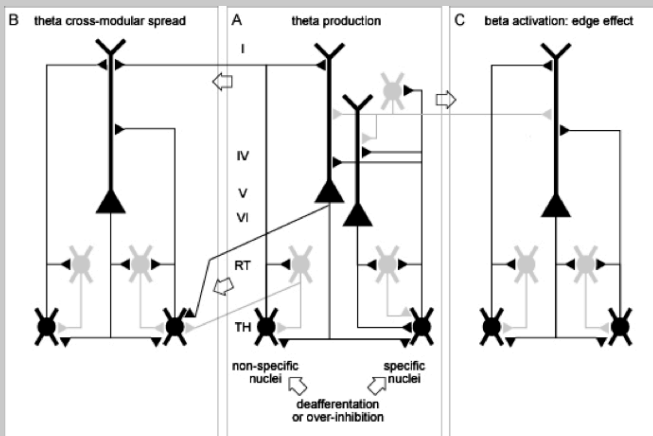
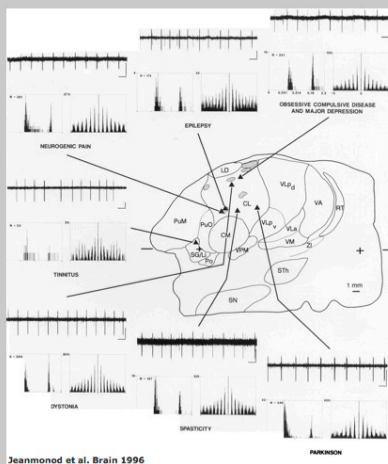


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Sarnthein et al. Brain 2006

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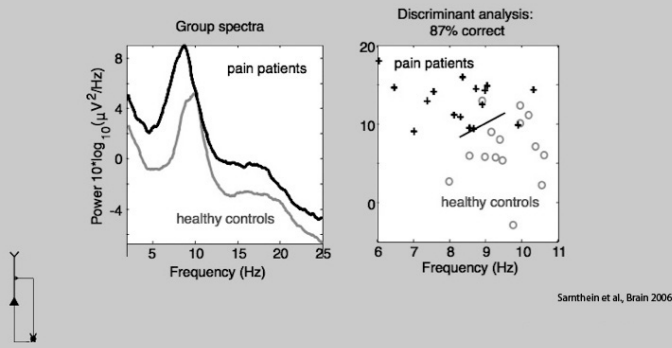
Jeanmonod et al. Brain 1996

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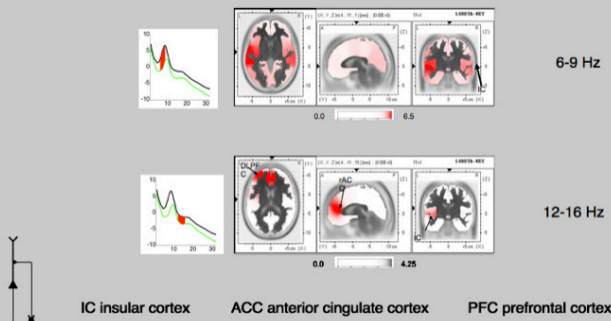
### Pain EEG: excess theta/beta

15 patients, 15 hc, ec



### EEG source localization LORETA

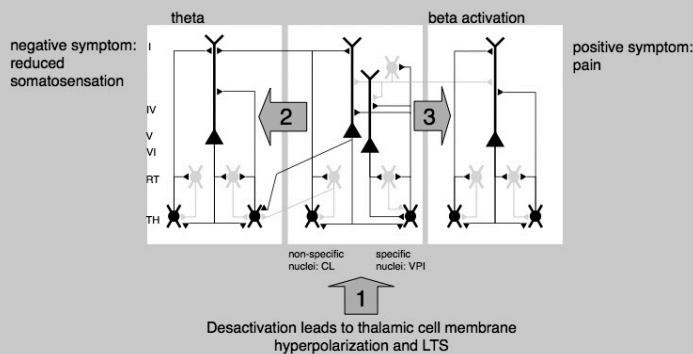
N=15 patients with neurogenic pain vs. N=15 healthy controls



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### Thalamocortical Dysrhythmia TCD

Thalamocortical loops and their interaction in neurogenic pain patients



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## THE BODY-MIND ISSUE

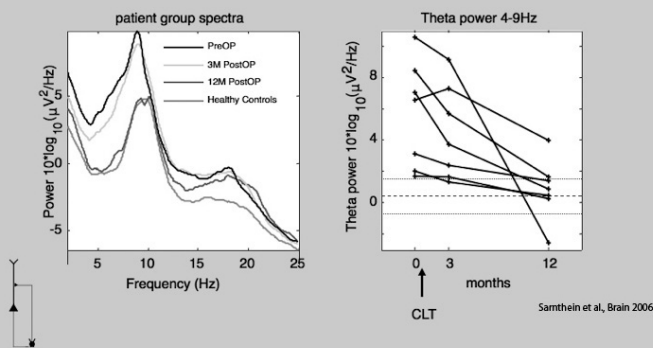
The thalamocortical dysrhythmia can be due to:

- 1) body and/or brain anomalies
- 2) an overload of the conceptual/emotional thalamocortical network

Conclusion: Body and mind problems both lead to the same deleterious dysrhythmic phenomenon, i.e. the sources of the disorders are dual, the mechanism entertaining them is one.

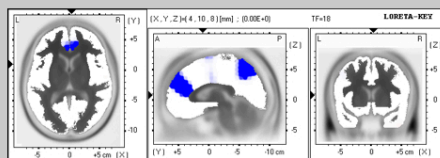
## Excess theta reduced by CLT

scalp EEG, 7 pain patients, ec, ICA, multitaper FFT



## Neurogenic pain patients pre-post surgery comparison

3 months, 8.5Hz, n.s.  
n=14



1 year, 8.5Hz,  $t=3.5$   
n=6

