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Bridging the Time Scales: Molecular Simulations for the Next Decade Nielaba, Peter; Mareschal, Michel; Ciccotti, Giovanni; Abstract. Publication: Bridging the Time Scales: Molecular Simulations for the Next Decade. Pub Date: 2002 DOI: 10.1007/3-540-45837-9 Bibcode: ...

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Bridging physiological and evolutionary time-scales in a gene regulatory network Gwenaelle Marchand<sup>1,2</sup>, Va<sup>^</sup>n Anh Huynh-Thu<sup>3</sup>, Nolan C. Kane<sup>4</sup>, Sandrine Arribat<sup>5</sup>, Didier Vares<sup>1,2</sup>, David Rengel<sup>1,2</sup>, Sandrine Balzergue<sup>5</sup>, Loren H. Rieseberg<sup>6,7</sup>, Patrick Vincourt<sup>1,2</sup>, Pierre Geurts<sup>3</sup>, Matthieu Vignes<sup>8</sup> and Nicolas B. Langlade<sup>1,2</sup> INRA, Laboratoire des Interactions Plantes-Microorganismes (LIPM), UMR441 ...

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TIME-BRIDGE aims at solving the time-scale problem by borrowing a concept well known and developed in the field of first-principles simulations: the pseudopotential ansatz. In first principles simulations a similar time scale gap exists between slow and fast moving electrons.

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Christoph Dellago and David Chandler --12. The Stochastic  
Difference Equation as a Tool to Compute Long Time Dynamics /  
Ron Elber, Avijit Ghosh and Alfredo Cardenas --13.

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Giovanni Ciccotti 5 IV Industrial Aspects of Mesoscale Modeling,

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Time scale bridging in atomistic simulation of slow dynamics: ...  
anthropological or geological-scale time behavior can be  
simulated at atomic resolution and understood in terms of micro-  
scale processes of molecular rearrangements and collective



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interactions. As examples of a

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Molecular dynamics is a ubiquitous tool for simulating a wide variety of large scale systems, ranging from the materials to the biological sciences. Schemes that increase the efficiency of such simulations are of great interest. In standard techniques, the time step of the generated trajectory is limited by the fastest motions present in the ...

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unifying model.

## **Bridging the physical scales in evolutionary biology: from**

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It is likely that due to changes in gene expression during development, many molecular components may vary on the timescale of hours (Mann & Firtel, 1989). In our model, this could manifest in a number of ways, including changes in the value of parameters with time as well as minor changes in the shape of the corresponding nullclines.

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