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Observing fast protein structural dynamics by X-rays

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Proteins are the molecular machines of living systems. Their function is based on structural dynamics occurring over a broad time scale from femtoseconds to seconds. The time resolution achievable with X-ray free electron lasers (XFEL), combined with the atomic sensitivity of hard X-rays, allows tracking fast structural changes in crystals and solutions of photosensitive proteins down to the sub-picosecond time window, when excited state dynamics take place. I will present recent examples of protein structural motions triggered by photon absorption and observed by XFEL radiation.

Choix de session parallèle

6.4 Résultats scientifiques récents obtenus avec les XFEL

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