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## Brain Waves Predict Epileptic Seizure

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ENLARGE

A team of scientists from the Bernstein Center of t big step towards a way of predicting epileptic se issue of the journal 'Epilepsia'.

Epileptic seizures can be very serious and researchers have been working for a while now on a method to predict them, without much success, but that is about to change thanks to this new team of physicists, physicians and neuroscientists.

The researchers worked on ways they could detect pre-seizure alterations of the brain, and as Professor Jens Timmer, physicist at the Freiburg Institute for Advanced Studies (FRIAS) says, "in recent years, several methods were developed to calculate predictive features from the electroencephalogram, which measures brain waves."

Still there is a lot of work left to be done concerning the individual prediction methods, as there were no significant performances until now.

This new study was part of the European Union funded project "EPILEPS

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experiment on whether a combination of several prediction methods could

Following this idea, they decided that a warning was to be given only if th different methods, in a short period of time.

So they recorded the electroencephalogram results from eight patients, and they found out that for all patients, the combination of detection increased performance by over 50%.

Hinnerk Feldwisch-Drentrup from the Bernstein Center Freiburg said second seizure could be predicted correctly, but while it is better than a state it seems not just yet to be sufficient for real clinical applications.”

Professor Andreas Schulze-Bonhage, head of the Epilepsy Center at the that “unfortunately, a considerable fraction of all epilepsy patients do no pharmaceuticals.

“For these patients, an automatic prediction of their suddenly occurring se they could prepare for the epileptic attack, for example by taking fast-acti

The next step is for scientists to gather a larger EEG database, in collab and once they would have reached 200 EEG recordings, then they w improvements, as [AlphaGalileo](#) reports.

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Comment #1 by: **bb** on 07 Oct 2010, 09:42 GMT

This is my 1st time here. hope this is ok. I was in Hospital to get control of meds and they wanted me to click button when i twitched i could,wouldnot then as med wore c new i was going down soon-heading for a seizure-goal md wanted.but i was out of m help that took so long previously! Well i got out of bed and had a grand-mall seizure concusion and cut on face from glasses. MD said i was fine-i think meant wont die.bi Can't speak like i did-worse wordfinding, cant even remeber how 2 wk tv remote. thz scared. and md and staff blammed me-please tell me what u think. like i said i had t wasalmost heald-now really just FUCKED up!

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