1 Syukuro Manabe, Klaus Hasselmann, Giorgio Parisi jointly won the 2021 Nobel Prize in Physics for groundbreaking contributions to our understanding of complex physical systems.”. The announcement was made by the Nobel Assembly on Tuesday, a day after they announced the names of winners of the coveted prize in the field of medicine.

Syukuro Manabe, Senior Meteorologist at Princeton University has been recognised for demonstrating how increased levels of carbon dioxide in the atmosphere lead to increased temperatures at the surface of the Earth. Meanwhile, Klaus Hasselmann,

professor at Max Planck Institute for Meteorology in Germany has created a model that links together weather and climate, thus answering the question of why climate models can be reliable despite weather being changeable and chaotic.

Giorgio Parisi, professor at Sapienza University of Rome has been awarded the Nobel for discovering hidden patterns in disordered complex materials. His discoveries are among the most important contributions to the theory of complex systems.

Thors Hans Hansson, chair of the Nobel Committee for Physics in a statement said, "The discoveries being recognised this year demonstrate that our knowledge about the climate rests on a solid scientific foundation, based on a rigorous analysis of observations. This year’s Laureates have all contributed to us gaining deeper insight into the properties and evolution of complex physical systems."

The Nobel Prize in Physics is awarded by the Royal Swedish Academy of Sciences, Stockholm, Sweden.

The prize contains 10 million Swedish kronor, with one half jointly to Syukuro Manabe and Klaus Hasselmann and the other half to Giorgio Parisi.

🏆 Лауреатами Нобелівської премії 2021 з фізики стали Шюкуро Манабе та Клаус Гассельманн, а також Джоджіо Парізі. Японсько-американського кліматолога Манабе та німецького вченого Гассельманна відзначили "за фізичне моделювання клімату Землі, кількісну оцінку мінливості та надійне прогнозування глобального потепління". А от італійця Парізі — "за відкриття взаємозв’язку безладу та флуктуацій у фізичних системах від атомного до планетарного масштабів".

2 Facebook, Instagram and WhatsApp are once again accessible, more than six hours after users first reported a major outage that took the services offline Monday.

The outage was caused by "configuration changes on the backbone routers," Facebook's VP of infrastructure, Santosh Janardhan, said in a blogpost late Monday.

Some of the services are not yet fully functioning — for example, some users are still reporting problems posting new content to Instagram.

"To the huge community of people and businesses around the world who depend on us: we're sorry," Facebook said in a statement. "We've been working hard to restore access to our apps and services and are happy to report they are coming back online now. Thank you for bearing with us."

All three platforms stopped working shortly before noon ET, when the websites and apps for Facebook's services were responding with server errors. Reports on DownDetector.com showed the outages appeared to be widespread, but it was unclear how many users were unable to access the apps.

ThousandEyes, a network monitoring service owned by Cisco, said in an email that the outage was the result of DNS failure. DNS, short for Domain Name System, is like a phone book for websites.

The outage marked the longest stretch of downtime for Facebook since 2008, when a bug knocked the site offline for about a day, affecting about 80 million users. The platform currently has 3 billion users.

Mike Schroepfer, Facebook's chief technology officer, apologized in a statement posted to Twitter.

"Sincere apologies to everyone impacted by outages of Facebook powered services right now," Schroepfer wrote. "We are experiencing networking issues and teams are working as fast as possible to debug and restore as fast as possible."

Facebook shares closed down almost 5% on the day.

Many users have posted memes about this situation