

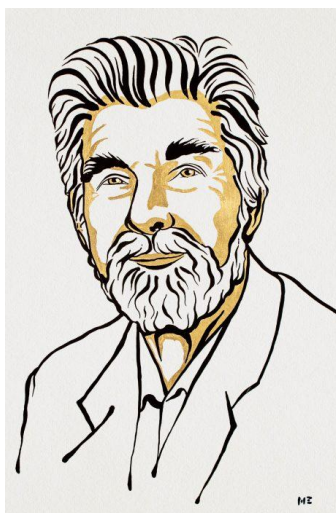
The Nobel Prize in Physics 2021

III. Niklas Elmehed © Nobel Prize Outreach



Syukuro Manabe

Prize share: : $\frac{1}{4}$



Klaus Hasselmann

Prize share: $\frac{1}{4}$



Giorgio Parisi

Prize share: $\frac{1}{2}$

The Nobel Prize in Physics 2021 was awarded "**for groundbreaking contributions to our understanding of complex systems**" with one half jointly to Syukuro Manabe and Klaus Hasselmann "**for the physical modelling of Earth's climate, quantifying variability and reliably predicting global warming**" and the other half to Giorgio Parisi "for the discovery of the interplay of disorder and fluctuations in physical systems from atomic to planetary scales."

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In layman's terms

Manabe created computer models in the 1960s which have proved that climate change is caused by factors that humankind can understand and predict through Physics. By inputting factors such as greenhouse gas emissions and other man made variables, his models accurately predicted what we are seeing today. The momentous meteorological and biological impacts that are the consequence of climate change are explainable by Science.