# Ansys HFSS

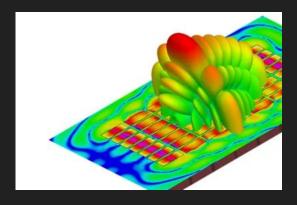
Presentación orientada para el laboratorio de Ondas Electromagnéticas



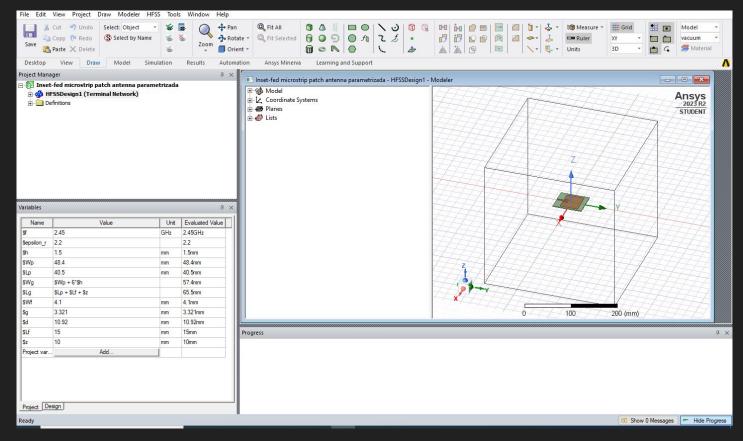
HFSS

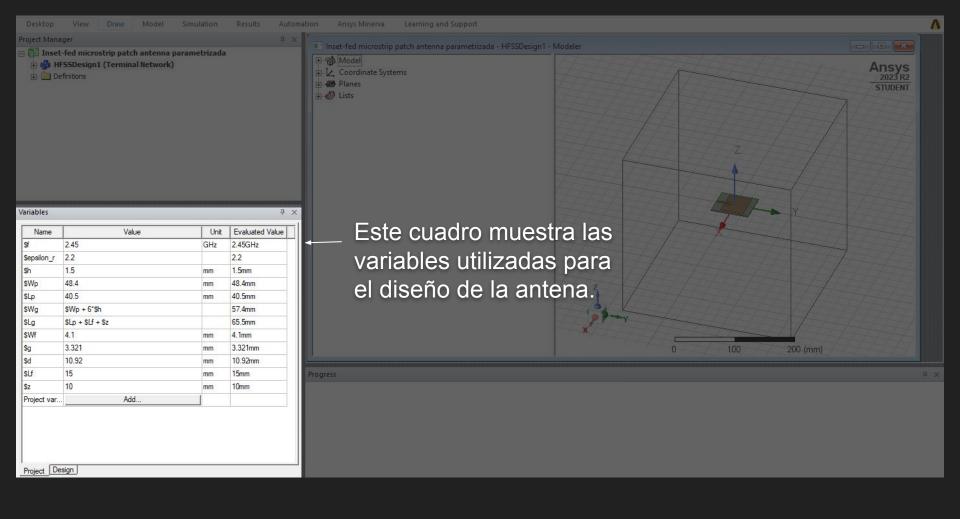
## ¿Que es Ansys HFSS?

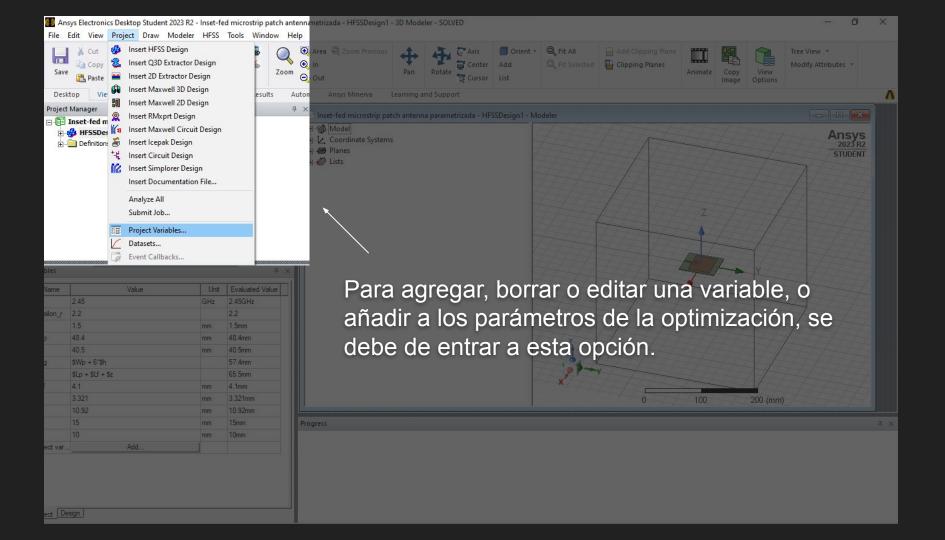
Ansys HFSS (High-Frequency Structure Simulator) es un software de simulación electromagnética (EM) en 3D para diseñar y simular productos electrónicos de alta frecuencia como antenas, arreglos de antenas, componentes RF o de microondas, interconexiones de alta velocidad, filtros, conectores, paquetes de circuitos integrados y placas de circuitos impresos.

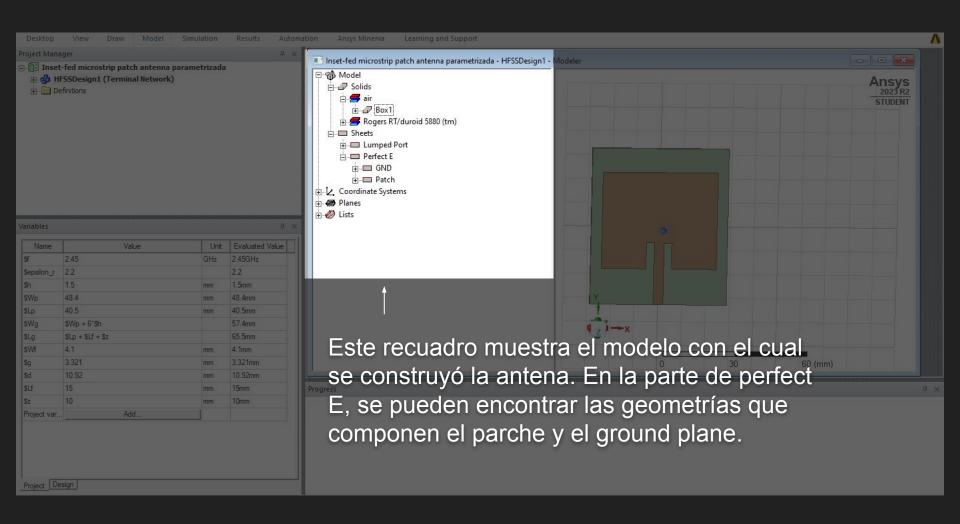


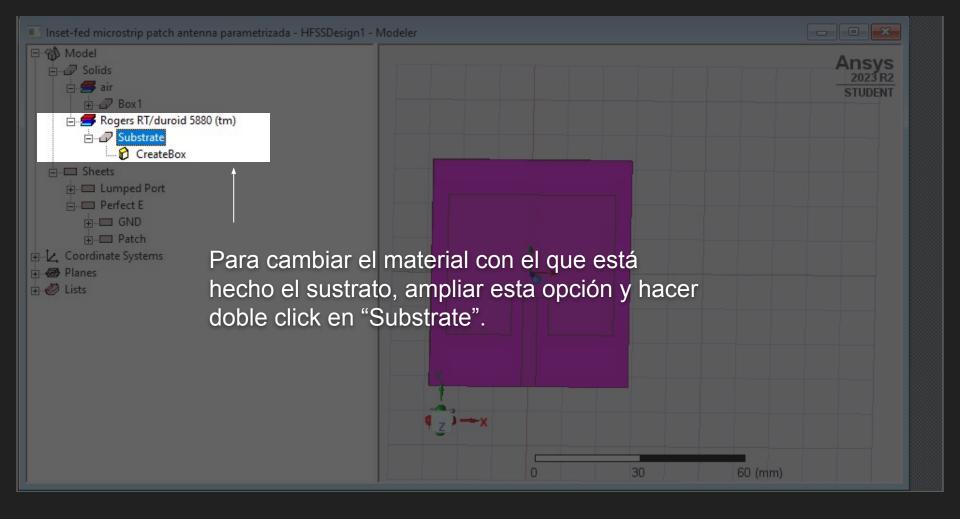
# ¿Cómo utilizar Ansys HFSS?



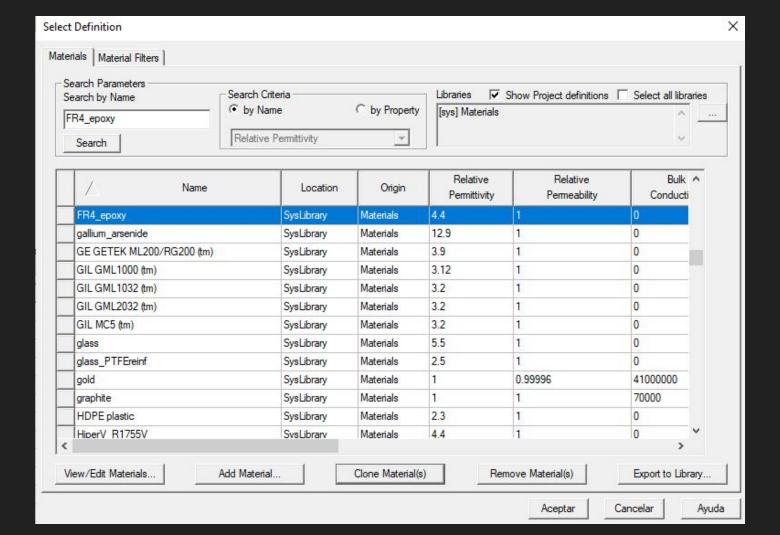


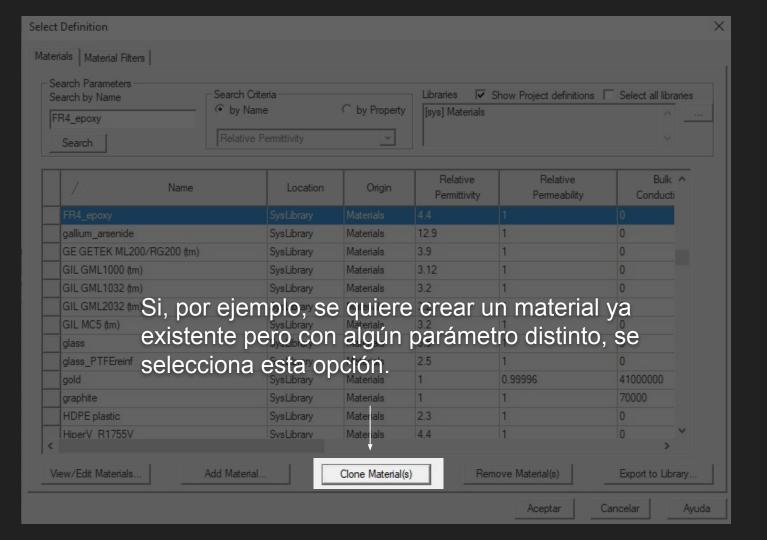


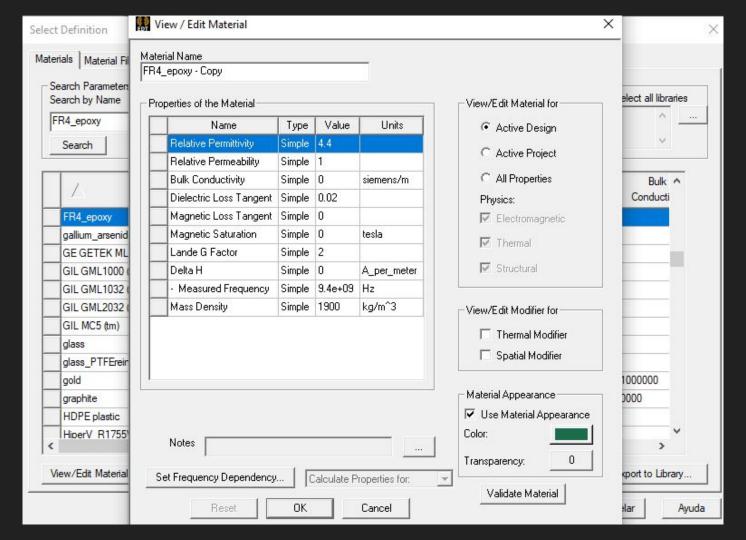


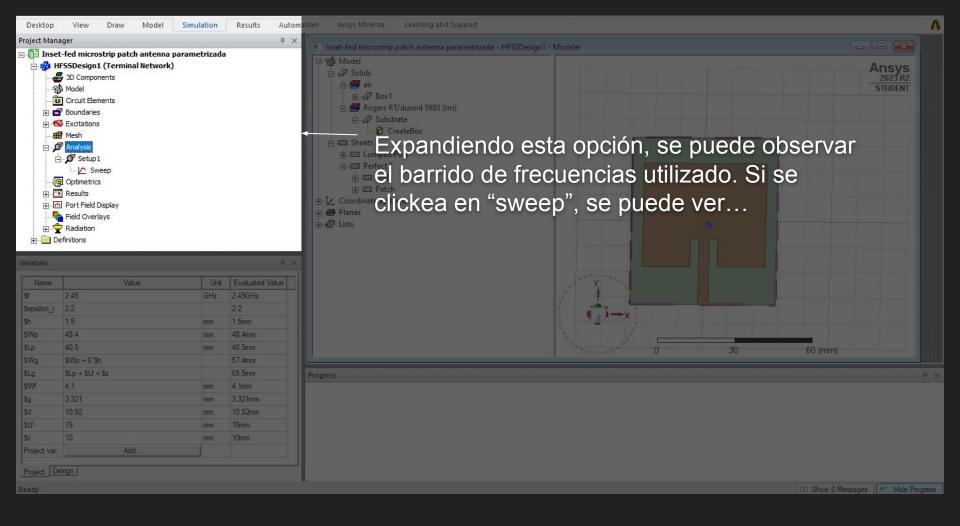


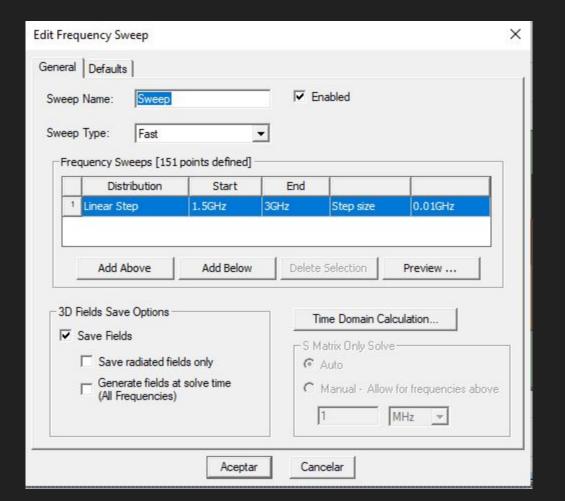
Name	Value	Unit	Evaluated Value	Description	Read-only
Name	Substrate				
Material	"Rogers RT/duroid 5880 (tm)"		"Rogers RT/du		
Solve Inside	Edit				
Orientation	"Rogers RO3003 (tm)"				
Model	"Rogers RT/duroid 5880 (tm)"				
Group	- "air" "vacuum"				
Display Wirefra					
Material Appea					
Color					
Transparent	0				
				□ Sh	ow Hidden

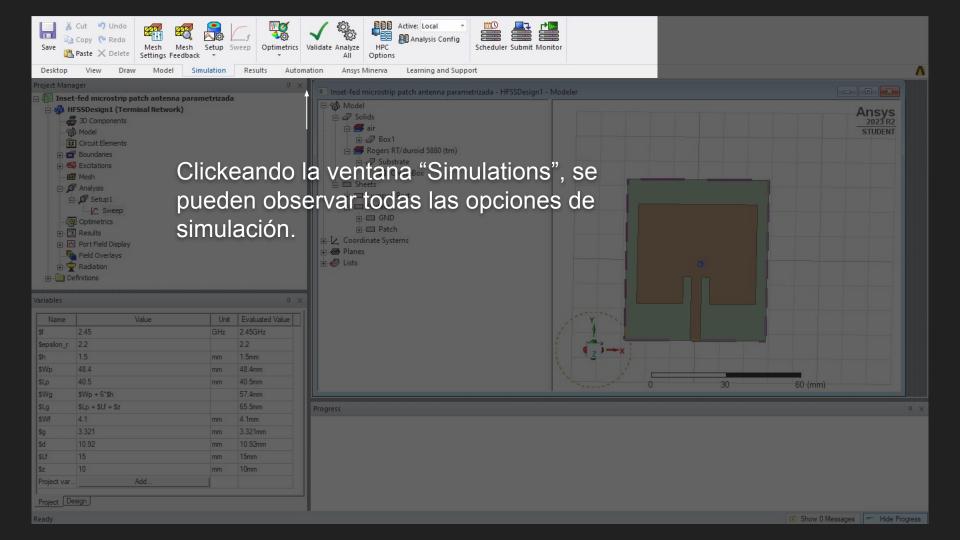


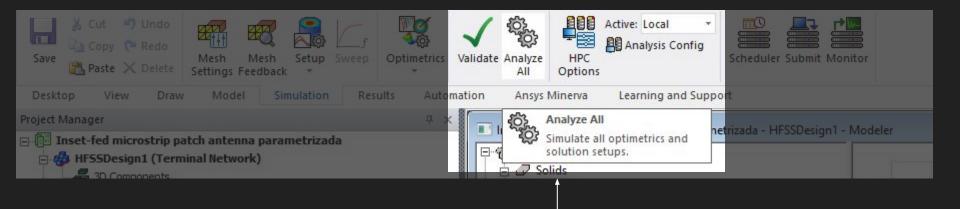




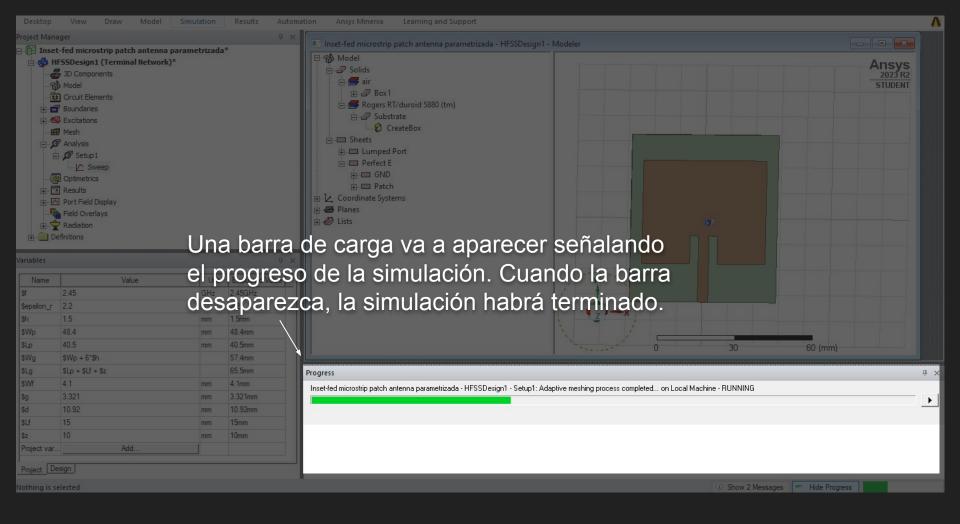


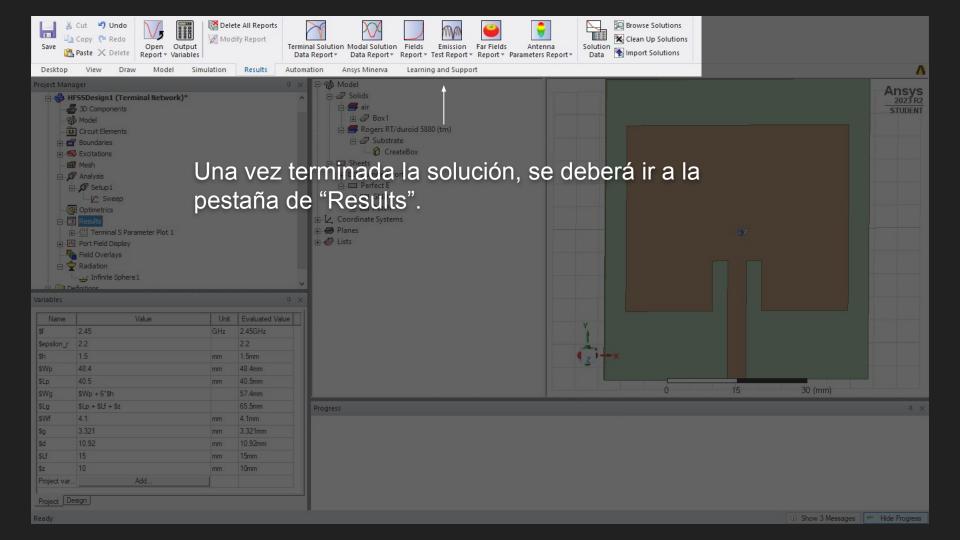




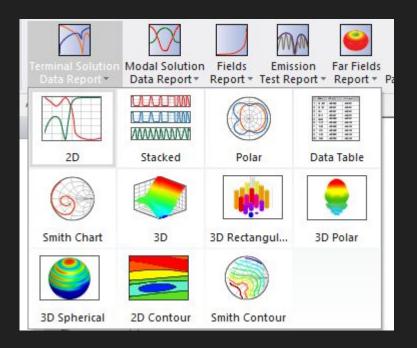


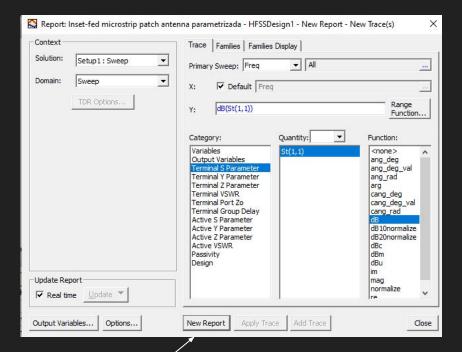
Para realizar la simulación electromagnética de la antena, clickear donde dice "Analyze All".



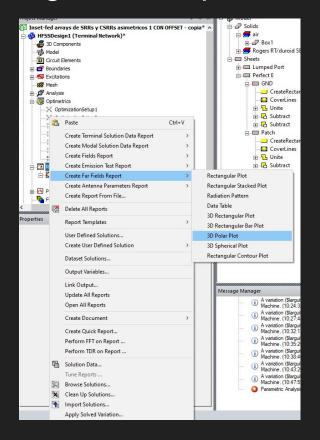


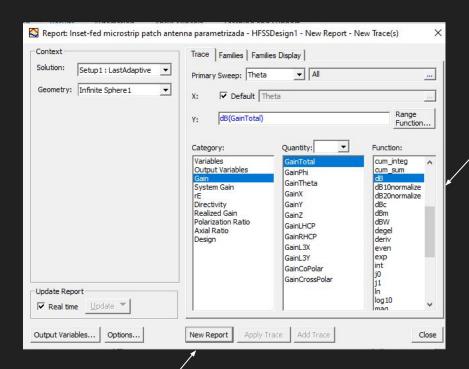
### Para graficar el S11:



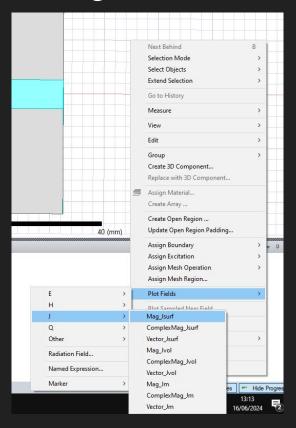


### Para graficar el patrón de radiación:





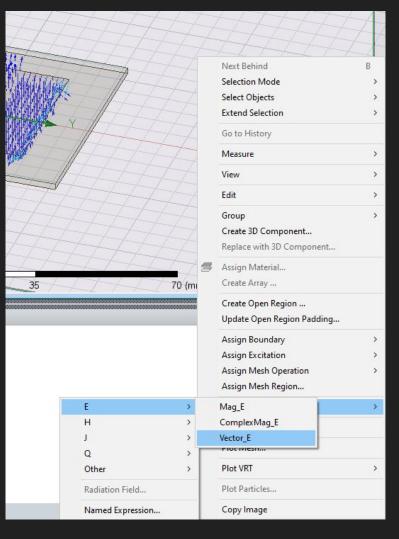
#### Para graficar densidad de corriente:



Si queremos la densidad de corriente en el patch, debemos seleccionar el patch previamente.

Mag\_Jsurf : módulo del vector densidad de corriente superficial (campo escalar).

Vector\_Jsurf : vector densidad de corriente superficial (campo vectorial).



Igualmente para el campo eléctrico:

Vector\_Esurf : vector campo eléctrico (campo vectorial).

#### Para animar un resultado:

