

## Physics – Charges and Fields PhET Lab

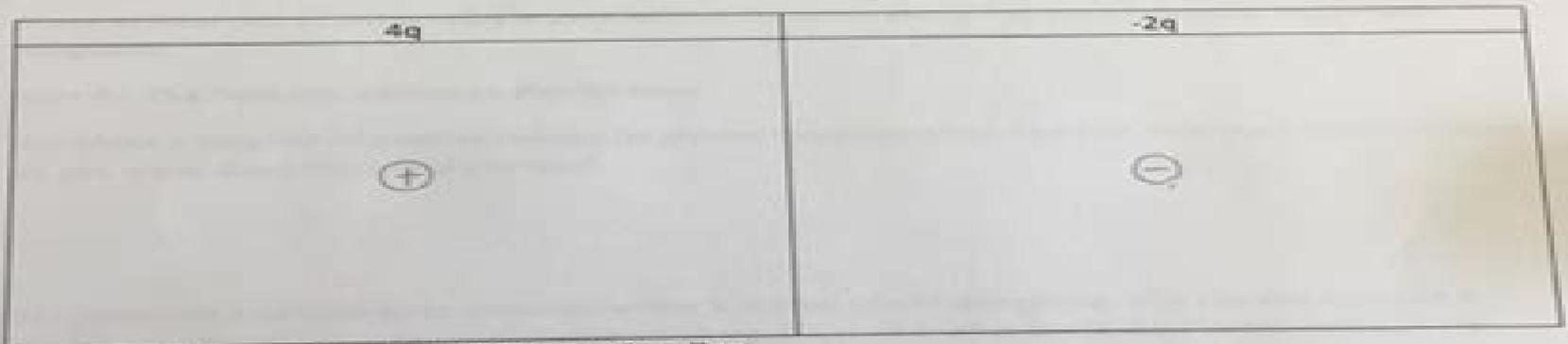
Today, you will use the Charges and Fields PhET lab to map the electric field around one or more point charges.

### Beginning Observations

- 1) Open the Charges and Fields PhET simulation. What can you change about the simulation?
- 2) What do the "E-field sensors" show?
- 3) Select, show E-field. How does the color of the arrow relate to the strength of the field?
- 4) How can you make a charge of  $+2q$ ?  $-3q$ ?

### Part 1 – Field around isolated point charges

5) Draw the field lines for the scenarios below. Make sure you are sketching continuous field lines.



### Part 2 – Field around two point charges in a line

# E Fields Phet Lab 1 Answers

**Didier Musso**



## **E Fields Phet Lab 1 Answers:**

New Developments in Science and Technology Education Martin Riopel,Zacharoula Smyrnaiou,2016-02-11 This book explores the beneficial impact of pedagogically updated practices and approaches in the teaching of science concepts as well as elaborates on future challenges and emerging issues that address Science and Technology Education By pointing out new research directions it informs educational practices and bridges the gap between research and practice providing information ideas and new perspectives The book also promotes discussions and networking among scientists and stakeholders such as researchers professors students and companies developing educational software and ICT tools The volume presents papers from the First International Conference on New Developments in Science and Technology Education 1st NDSTE that was structured around four main thematic axes Modern Pedagogies in Science and Technology Education New Technologies in Science and Technology Education Teaching and Learning in the light of Inquiry learning Methods and Interest Attitude and Motivation in Science

**Online Engineering & Internet of Things** Michael E. Auer,Danilo G. Zutin,2017-09-14 This book discusses online engineering and virtual instrumentation typical working areas for today s engineers and inseparably connected with areas such as Internet of Things cyber physical systems collaborative networks and grids cyber cloud technologies and service architectures to name just a few It presents the outcomes of the 14th International Conference on Remote Engineering and Virtual Instrumentation REV2017 held at Columbia University in New York from 15 to 17 March 2017 The conference addressed fundamentals applications and experiences in the field of online engineering and virtual instrumentation in the light of growing interest in and need for teleworking remote services and collaborative working environments as a result of the globalization of education The book also discusses guidelines for education in university level courses for these topics

Cyber-Physical Laboratories in Engineering and Science Education Michael E. Auer,Abul K.M. Azad,Arthur Edwards,Ton de Jong,2018-04-26 This volume investigates a number of issues needed to develop a modular effective versatile cost effective pedagogically embedded user friendly and sustainable online laboratory system that can deliver its true potential in the national and global arenas This allows individual researchers to develop their own modular systems with a level of creativity and innovation while at the same time ensuring continuing growth by separating the responsibility for creating online laboratories from the responsibility for overseeing the students who use them The volume first introduces the reader to several system architectures that have proven successful in many online laboratory settings The following chapters then describe real life experiences in the area of online laboratories from both technological and educational points of view The volume further collects experiences and evidence on the effective use of online labs in the context of a diversity of pedagogical issues It also illustrates successful online laboratories to highlight best practices as case studies and describes the technological design strategies implementation details and classroom activities as well as learning from these developments Finally the volume describes the creation and deployment of

commercial products tools and services for online laboratory development It also provides an idea about the developments that are on the horizon to support this area

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