

2d arrays of ion pdf

2D Arrays of Ion Traps for Large Scale Integration of Quantum Information Processors by Muir Kumph
Quantum computation and simulation is an emerging disruptive technology. Only first suggested by visionaries [1, 2] in the 1980s, in the last 30 years, small quantum computers have become a reality.

2D Arrays of Ion Traps for Large Scale Integration of

In this study we investigated the characteristics of a commercial ion chamber array and its performance in the verification of radiotherapy plans. The device was the 2D Array Seven29 model (PTW, Freiburg, Germany).

Characterization of a 2D ion chamber array for the

The Octavius1500 2D ion chamber array and its associated phantoms: dosimetric characterization of a new prototype. Med Phys 2014; 41 (9): 091708.

Statistical analysis on 2D array of ion chamber

Two-Dimensional Arrays
Arrays that we have considered up to now are one-dimensional arrays, a single line of elements. Often data come naturally in the form of a table, e.g., spreadsheet, which need a two-dimensional array. Examples: Lab ...

Two-Dimensional Arrays

PDF | The optimisation of two-dimensional (2D) lattice ion trap geometries for trapped ion quantum simulation is investigated.

(PDF) Optimisation of two-dimensional ion trap arrays for

95.0 cm. The 2D Array Seven29 reference point of measurement was then located at 100 cm from the radiation source. This ensured that the projection of the MLC leaves matched the row of ion chambers in the 2D Array. We will refer to this measurement set-up as standard set-up.

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voltage, drive frequency, ion mass and electric field noise density. Additionally it is possible that 2D ion arrays of this type could also be used for quantum computation. For example, cluster state quantum computation could be carried out in such a system [22, 23]. However, additional constraints may also have to be taken into account. 2.

Optimization of two-dimensional ion trap arrays for

The cryogenic ion-trapping apparatus used in this work is shown in Fig. 1(a) and is a variation of a system used previously [7{9]. In order to achieve fast ion-loading rates and long trap lifetimes, we have implemented a two-dimensional magneto-optical trap (2D-MOT) of neutral strontium operating on the $5S\ 0!5P\ 1$ transition at 461 nm.

Scalable Loading of a Two-Dimensional Trapped-Ion Array

two-dimensional arrays of surface traps, has been proposed¹⁵ and demonstrated³¹. Boosting the strength of interaction to a level ... ion-surface separation to order d and the concomitant increase in motional heating due to electrical noise. Recently, methods for reducing this heating by more than two orders of magnitude with

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