Illustrated is a $17 \times 17$ pixel square containing 12 bead centres. By definition, the central pixel will be within the background calculation area for all 12 of these beads (as indeed will one of its neighbours - both indicated in the figure). Should one or both of these common pixels exhibit an aberrantly low intensity, then the intensities associated with the 12 pictured beads will be biased in a correlated manner.