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Quantum noise (or photon noise, or short noise, or Poisson noise) is one considered in detail in the previous section (eqs. (4.11)-(4.16)). In Example 4.1 the light source has constant emission rate, however, the experimentally available value is the number of photons measured in a limited time

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interval, which is the random value by its nature. This type of noise cannot be eliminated when dealing with quantum objects (but in some applications can be reduced to negligible level).

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3.3 Dark Current 32 3.4 CCD Pixel Size, Pixel Binning, Full Well Capacity, and Windowing 35
3.5 Overscan and Bias 37 3.6 CCD Gain and Dynamic Range 39 3.7 Summary 46 4 CCD Imaging 47
4.1 Image or Plate Scale 47 4.2 Flat Fielding 48 4.3 Calculation of Read Noise and Gain 52 4.4 Signal-to-Noise Ratio 53

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Abstract. A single mode dye laser model with two stochastically fluctuating forces

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representing pump and quantum fluctuations is discussed. In extension to a previous paper we investigate the different influences of colored pump noise and white quantum fluctuations on the laser light statistics. The corresponding two-variable Fokker-Planck equation is solved by means of matrix continued fractions.

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