problem 1:

$$P_{ik}$$
 - S_{ik} - C_{ik} -> projection into the plane orthogonal to C_{ik}

y-direction:
$$\sqrt{e^2} \left(\frac{1}{2} \right)^2 = \sqrt{\frac{1}{2}} \left(\frac{1}{2} \right)^2 = \sqrt{\frac{1$$

There is a factor 8 between the radiation in the plane compared to the radiation orthogonal to the plane of the binary system.

problem 2:

$$\frac{1}{2} - \frac{1}{2} + \frac{1}{2} = \frac{1}{2}$$

$$g'(\frac{1}{2}) = g'(\frac{1}{2} + \frac{1}{2}) = g(\frac{1}{2})$$

$$\frac{1}{2} = \int dx' \times f' g'(x')$$

$$= \int dx' \times f' g(x)$$

$$= \int dx (\frac{1}{2} + \frac{1}{2}) g'(x')$$

$$\frac{1}{2} g'(x')$$

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One of the standard arguments is that the monopole vanishes for the system and the radiation does not depend on the coordinate system chosen!

$$M = \int d^3x T^{00}$$

$$= \int d^3x \partial_x T^{00}$$

$$= -\int d^3x \partial_i T^{i0} = Surface term$$

$$\mathcal{D}^{1} = \int d^{2}x \times i T^{0}$$

$$\mathcal{D}^{2} = \mathcal{D}^{2} = \mathcal{D}^{2} = \mathcal{D}^{1} = \mathcal{D}^{1}$$

Fourier transform:

$$FT(1) = g(\omega)$$

$$FT(1) = \frac{\partial}{\partial \omega} S(\omega)$$

the support of these function is basically w = 0 and hence there is no radiation produced.

The same argument can also be applied in ED.

So the ED radiation is also not coordinate dependent even if the monopole (the total charge of the system) does not vanish.