

ISR RUNNING IN

I should like to comment on the pictures shown in M. de Jonge's report on Run 50.

There are resonance dips in the pictures at

8.2, 4.3, 5.0 and 6.0 Hewlett Packard centimetres above injection which correspond to

4.1, 5.5, 6.4 and 7.7 cm above injection in average radius.

These dips can be made roughly coincident with the strong 8th order resonances passing through the point  $Q_H = Q_V = 8.625$ , if one shifts the working line (see K. Henrichsen's report on Run 44) by  $\Delta Q_H = -0.015$  and  $\Delta Q_V = -0.02$ . This is shown in the Figure.

I do admit that I find the Q shifts a little high. The calculated vertical Q shift is about  $\Delta Q_V = 0.01$  and depends very little on uncertain beam dimensions. The discrepancy cannot be explained by neutralisation because this shifts Q values up rather than down.

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