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## **BLAST CONTOUR**

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The “momentum method” of the author is principally described on the 12<sup>th</sup> MABS Symposium. In this paper new surprising results in the near field of none spherical charges are presented. This method gives the momentum distribution around the charge with a very high angle resolution. The blast contour in free air

- of unconfined and confined cylindrical charges with 1 mm, 3 mm and 10 mm casings,
- of different length to diameter ratios of 1/2, 1/ 1, 2/1 and 4/1
- of different charge compositions, without and with 20% aluminium content

will be presented.

It should be emphasised that the damage in the near field, where the scaled time in the scaled distances of  $1 - 2 \text{ m/kg}^{1/3}$  is about  $2 \text{ ms/kg}^{1/3}$ , for small charges of about few kilograms only the impulse is responsible for any damaging effects. Therefore it is enough to measure this important size only and to neglect the measurement of the pressure time histories which typically gives nasty signals in the fireball. It is enough to measure the integral value, which is expressed by the transferred momentum.

*A short summary can be given in a typical presentation time of 20 minutes. A full description of this topic with all the important results would need 45 – 60 minutes.*