

**Abstract** We present the characterization of ultrashort laser pulses by using the plasma-induced frequency resolved optical switching (PI-FROS) technique, implemented in ambient air. This recently developed method allows for a temporal reconstruction of a pulse at its focal spot by utilizing a moderately intense pump laser pulse for generating a ionization-induced ultrafast defocusing lens. When propagating through the produced plasma lens, the probe beam to characterize experiences an increase of its size in the far field. The spectrum of the defocused probe field, measured as a function of the pump-probe delay, allows for a comprehensive characterization of the temporal and spectral attributes of the pulse. We report herein the ability of this technique, initially designed for use in rare gases, to operate in ambient air conditions with similar performance. The method is remarkably straightforward to implement and requires no additional optical component other than a focusing mirror, while delivering laser pulse reconstructions of high reliability.

# Temporal characterization of laser pulses using an air-based knife-edge technique

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## 1. Introduction

After over three decades of continuous development in ultrafast laser technologies, a wealth of diagnostic tools has emerged for the characterization of femtosecond optical pulses [1–7]. For an intensive review of this topic, we invite the reader to refer to [8, 9]. In this context, nearly all optical devices designed for pulse characterization require the use of transmissive optics (such as nonlinear crystals, lenses, polarizers, thin glass pieces, and so forth), which can potentially introduce undesired effects on the pulse measurement. For instance, transmissive optics inherently imparts additional spectral phase (which can be nevertheless limited by minimizing the total thickness of the optics) to the pulse under examination, potentially posing challenges, especially for ultra-broadband laser fields measurements. Moreover, in the case of intense laser pulses, transmissive optics may introduce a nonlinear temporal phase due to nonlinear effects or, in the worst scenario, may be subject to optical damage. Lastly, an optical characterization device does not provide the temporal profile of the laser pulse at the exact location where experiments are carried out. Specifically, in pump-probe experiments, the critical pulse characteristics are those at the point where the pump and probe interact, namely, at their focal positions. Recently, a characterization method directly working in air has been developed [10]. This technique, called tunneling ionization with a perturbation by the time-domain observation of an electric field (TIPTOE), allows for the direct time sampling of the field to characterize at the focal point. However, since this technique has to resolve the carrier frequency oscillations of the field, it requires to acquire a signal with a sub-cycle resolution. Moreover, the approach can only be applied for moderately chirped input

pulses [11]. Recently, we demonstrated that photo-induced free electrons left in the wake of a moderately intense laser pump can be advantageously exploited for characterizing the temporal properties of a pulse [12]. As recently shown in [13], the key idea of this phase-matching free method was to produce a temporal analogue of the knife-edge technique widely used for determining the spatial intensity distribution of a beam. When created by a bell-shaped pump beam, a plasma distribution is known to act as a negative lens, simply because the refractive index modification induced by free electrons is negative [14, 15]. As a consequence, when propagating in this low-density plasma, a probe beam will experience a defocusing leading to an increase of its size in the far field. In the time domain, since the plasma is created almost instantaneously by the pump and provided that its lifetime (typically tens to hundreds picoseconds) is longer than the probe duration, only the trailing edge of the probe will be defocused. Combined with a coronagraph placed in the far field so as to obstruct the probe path when it propagates alone, the induced-plasma then acts as a switch that can be viewed as a temporal blade. More particularly, it was shown that measuring the spectrum of the signal propagating around the coronagraph as a function of the pump-probe delay allows for a comprehensive retrieval of the temporal and spectral characteristics of the probe field. This approach, called plasma-induced frequency resolved optical switching (PI-FROS), features a number of remarkable assets. It is straightforward to implement, free from phase-matching issues, can operate over an exceptionally broad spectral range, in both self- or cross-referenced configurations, at ultra-high repetition rates with no damage threshold [12]. In order to assess the performance of the method, a noble gas (argon) was used during our first demonstration. Such

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**JL Elias**

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